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Closeout Radiological Survey Report For Building 779,

"A" Annex

Rocky Mountain Remediation Services, L.L.C.

Millennium Services Inc

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CLOSEOUT RADIOLOGICAL SURVEY REPORT FOR BUILDING 779, "A" Annex

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Acro

onyms	
cpm	Counts Per Minute
CRSP	Closeout Radiological Survey Plan
D&D	Decontamination and Decommissioning
DCGLw	Derived Concentration Guideline Level – Wilcoxon Rank Sum test
DCGLEMC	Derived Concentration Guideline Level – Elevated Measurement
•	Comparison
DOE	U S Department of Energy
dpm	Disintegration Per Minute
DQA	Data Quality Assessment
DQO	Data Quality Objectives
FSS	Final Status Survey
FSSP	Final Status Survey Plan
FSSR	Final Status Survey Report
HSA	Historical Site Assessment
LBGR	Lower Bound of the Gray Region
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
MDA	Minimum Detectable Activity
MDC	Minimum Detectable Concentration
NIST	National Institute of Standards & Technology
NORM	Naturally Occurring Radioactive Material
PRE	Project Radiological Engineer
PSPC	Position Sensitive Proportional Counter
QA	Quality Assurance
QA/QC	Quality Assurance/Quality Control
QC	Quality Control
RCT	Radiological Control Technician
RE	Radiological Engineer
REFS	Radiological Engineering Field Services
RESS	Radiological Engineering Support Services
RFETS	Rocky Flats Environmental Technology Site
SAC-4	Scintillation Alpha Counter
SCM/SIMS	Surface Contamination Monitor/Survey Information Management System
SRA	Shonka Research Associates
TSA (TSC)	Total Surface Activity (or Total Surface Contamination)

Verification and Validation

Abstract

Total and removable surface contamination surveys and scan surveys were performed in each "A" Annex survey units Paint/surface media samples were collected in survey units 77907, 77908, 77910, 77921, 77922, 77927, 77928, 77929 The number/frequency of surveys/samples collected in each survey unit was based on the guidance provided in the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM)

All survey/sample results presented in this report meet the DCGLs as defined by the Closeout Radiological Survey Plan for the 779 Cluster

1.0 Introduction

Building 779 was originally constructed in 1965, with additions in 1968 and 1973. The mission of Building 779 was primarily as a nuclear weapons research and development center, and an analytical laboratory in support of Plutonium Operations. This report documents the final survey results of "A" Annex, the north end of the loading dock floors, walls and roof, and the south end of the loading dock walls of 779 (including the exterior surfaces of "A" Annex and the loading dock). The final surveys for other portions of Building 779 and the Building 779 cluster will be documented in separate, stand-alone reports.

"A" Annex and the loading dock are single-level structures that are connected to the north and east side of Building 779. The exterior walls of "A" Annex are cinder block and concrete. The exterior walls of the loading dock are galvanized steel, cinder block and concrete.

"A" Annex contained numerous laboratories and support facilities that were utilized for nuclear weapons research and development. Numerous floor, walls and ceiling surfaces were hydrolased to remove paint. Small areas where contamination penetrated into the concrete substrate were remediated. Some of the remediated areas in the slab such as boltholes were at a depth greater than 3/8 of an inch. All accessible surfaces were surveyed. Since the slab will be remediated at a later time when environmental restoration is performed, the total activity surveys on the accessible surfaces is deemed acceptable.

Final surveys were limited to alpha contamination surveys. Beta-gamma characterization surveys and removable contamination measurements did not indicate the presence of any beta-gamma contamination in excess of the applicable DCGLs. Tritium smears collected in Room 154 did not indicate any tritium contamination in excess of the applicable tritium DCGLs.

The areas were stripped of radiologically contaminated process piping prior to the performance of final surveys. All contaminated and non-contaminated penetrations in the slab were grouted and will remain until environmental restoration is accomplished. One contaminated slab penetration (approximately 12" X 12") had a metal frame with fixed contamination. The penetration could not be easily decontaminated and was therefore grouted and a plate was affixed over the penetration and imbedded metal frame. The plate will be labeled and painted orange prior to demolition to indicate the presence of radioactive contamination.

Five additional large area slab penetrations (12" X 12") were confirmed to contain fixed contamination, and were subsequently grouted. The contamination in these penetrations is below grade, therefore they are not required to be plated in accordance with the 779 Closeout Radiological Survey Plan. However, as a good ALARA practice, plates will also be placed over these large area penetrations in order to protect the grout during demolition.

The galvanized steel walls and ceiling of the dock are outside the scope of final survey, and will be evaluated and released per a Release Evaluation in accordance with 3-PRO-141-RSP-09 01, *Unrestricted Release of Property, Material, Equipment, and Waste*, prior to building demolition and released via Release Evaluation (#991101-00779-001) The material will remain on the building during demolition, and will be segregated from building rubble after demolition

The north doors of Rooms 154 and 160 will be removed and disposed of as radioactive waste (due to the potential of painted-over contamination) prior to demolition

1.1 Survey Unit Descriptions

The "A" Annex Report consists of rooms 144 through 167 (including the associated hallways, stairwells, and airlocks), the north end of the loading dock, and the building exterior (north, west, and east walls and roof)

Based on process history, characterization surveys and in-process surveys, the survey units were classified in accordance with MARSSIM and the Building 779 Cluster Closeout Radiological Survey Plan (CRSP)

"A" Annex consisted of three survey areas that were further broken down into fourteen survey units. More detailed survey unit justifications are delineated in each survey unit package located in the project files.

Table 1.1 Survey Unit Classifications

Survey Unit	Description	Justification for Classification	Class
77907	"A" annex exterior walls and roof	Class 2 due to the potential spread of contamination from outside areas (e.g., solar ponds, Building 776 fire)	2
77908	Loading dock exterior walls and roof	Class 2 due to the potential spread of contamination from outside areas (e.g., solar ponds, Building 776 fire)	2
77910	North wall airlocks	Class 2 due to the potential spread of contamination from outside areas (e.g., solar ponds, Building 776 fire)	2
77919	East interior walls of loading dock	Class 3 because of low potential for contamination to exceed the DCGL _w	3
77921	Rooms 144/145/146/147/148/151	Class 1 due to radwaste storage, location within a CA, known contamination, & process history	1
77922	Room 150	Class 1 due to radwaste storage, location within a CA, known contamination, & process history	1

Survey Unit	Description	Justification for Classification	Class
77923	Room 152	Class 1 due to radwaste storage, location within a CA, known contamination, & process history	1
77924	Room 154	Class 1 due to radwaste storage, location within a CA, known contamination, & process history	1
77925	Rooms 156/160/160A	Class 1 due to radwaste storage, location within a CA, known contamination, & process history	1
77926	Rooms153/153A/153B/155/157	Class 1 due to radwaste storage, location within a CA, known contamination, & process history	1
77927	Rooms 159/161/163	Class 1 due to radwaste storage, location within a CA, known contamination, & process history	1
77928	Rooms 163A/165/167/167A	Class 2 due to radwaste storage & location within a CA	2
77929	Rooms 162/164/166	Class 2 due to radwaste storage & location within a CA	2
77949	North end of the loading dock floor	Class 1 due to radwaste storage & transfer	1

1.2 Overview Maps

Figures 1 1 and 1 2 depict the location of the "A" Annex in the 779 Cluster, and an interior view of the "A" Annex, respectively

Figure 1.1
"A" Annex Exterior Overview Map

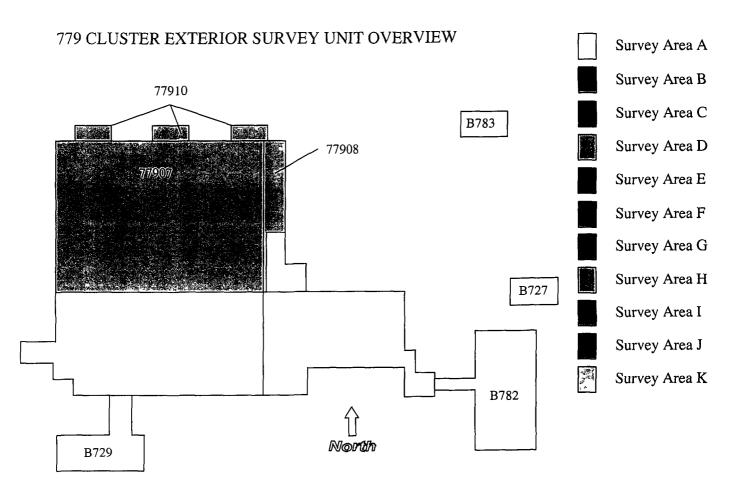
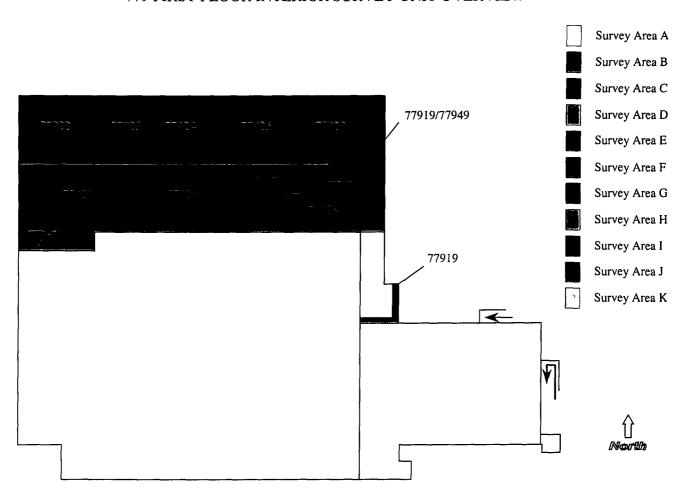


Figure 1.2 "A" Annex Interior Overview Map

779 FIRST FLOOR INTERIOR SURVEY UNIT OVERVIEW



2.0 Scope of Work

2.1 Paint/Surface Media Samples

Paint/surface media samples were obtained in 77907, 77908, 77910, 77921, 77922, 77927, 77928, and 77929 to ensure average contamination did not exist below painted surfaces or other forms of surface media such as roofing material, floor adhesive, or within the paint or roofing/adhesive material itself. No samples were collected from 77923, 77924, 77925, 77926, or 77949 (Class 1) because the paint or surface media was removed prior to final survey. In addition, no media samples were collected from the Class 3 area (77919) (not required per the CRSP)

No volumetric samples were collected due to the fact that there was no evidence (as discovered during the historical site assessment, characterization, and final status surveys) that contamination had migrated into cinder block, concrete, or any other base material and disappeared from the surface. Total surface activity measurements and surface media sampling were utilized as the detection methods for any contamination that occurred on building surfaces.

The sample collection method for coated surfaces (paint or adhesive) involved the collection of cover material to a depth where the underlying base material was exposed

The quantity of samples was determined based on MARSSIM statistical calculations to satisfy Impacted Class 1, 2 or 3 survey requirements. The calculation methodology for the number of media samples is presented in the Closeout Radiological Survey Plan for the 779 Cluster (Section 5 2 6 2). Based on the pre-survey calculations included in each survey package, the following are required for each survey unit

- A minimum of 15 removable contamination measurements per 100 m² for Class 1 survey units
- A minimum of 15 removable contamination measurements per 1000 m² for Class 2 survey units
- No media samples are required for Class 3 survey units

Refer to Building 779 project files for details. A portion of survey unit 77908 (the south end of the dock roof) was moved to survey unit 77906 and will be demolished with the main building. Survey measurements 11 - 14 were moved from 77908 to 77906. This left 14 paint /media samples for 77908. It was verified by MARSSIM calculations using the actual standard deviation of the media samples for survey unit 77908 that only 13 measurements were required.

Instrument calibration, maintenance, source check requirements, data reduction and MDC equations are controlled per applicable Kaiser Hill Analytical Services Division procedures

2.2 Removable Surface Contamination Surveys

Removable surface contamination surveys were obtained in each survey unit to ensure that removable contamination did not exist above the Building 779 Cluster applicable DCGL. The quantity of removable contamination measurements was determined based on MARSSIM statistical calculations as presented in the Closeout Radiological Survey Plan for the 779 Cluster, RF/RMRS-97-123 UN (Section 5 2 6 2). Based on the presurvey calculations included in each survey package, the following are required for each survey unit.

- A minimum of 15 removable contamination measurements per 100 m² for Class 1 survey units
- A minimum of 15 removable contamination measurements per 1000 m² for Class 2 survey units
- A minimum of 15 removable contamination measurements for Class 3 survey units regardless of survey unit size

Refer to Building 779 project files for details. A portion of survey unit 77908 the south end of the dock roof was moved to survey unit 77906 and will be demolished with the main building. Survey measurements 11 - 14 were moved from 77908 to 77906. This left 14 paint /media samples for 77908. It was verified by MARSSIM calculations using the actual standard deviation of the removable measurements for survey unit 77908 that only 13 measurements were required.

Smears were counted on a SAC-4 Instrument calibration, maintenance, source check requirements, data reduction and MDC equations are provided in 3-PRO-112-RSP-02 01, Revision 1, "Radiological Instrumentation"

2.3 Total Surface Activity Surveys

Total surface activity surveys were obtained in each survey unit to ensure the average total activity levels did not exist above the Building 779 Cluster DCGL_Ws. The number of total surface activity surveys was also determined based on MARSSIM statistical calculations as presented in the Closeout Radiological Survey Plan for the 779 Cluster (Section 5 2 6 2). Based on the pre-survey calculations included in each survey package, the following are required for each survey unit

- A minimum of 15 removable contamination measurements per 100 m² for Class 1 survey units
- A minimum of 15 removable contamination measurements per 1000 m² for Class 2 survey units
- A minimum of 15 removable contamination measurements for Class 3 survey units regardless of survey unit size

Refer to Building 779 project files A portion of survey unit 77908 the south end of the dock roof was moved to survey unit 77906 and will be demolished with the main building Survey measurements 11 - 14 were moved from 77908 to 77906. This left 14 paint /media samples for 77908. It was verified by MARSSIM calculations using the actual standard deviation of the total activity measurements for survey unit 77908 that only 13 measurements were required.

The surveys were performed with an NE Electra with the 100 cm² DP6 detector. The survey count time was ninety seconds. Local area background determinations are discussed in Section 4.0. Instrument calibration, maintenance, source check requirements, as well as data reduction and MDC equations are provided in 3-PRO-112-RSP-02.01. Revision 1, "Radiological Instrumentation"

The Electra MDC is verified in a radiological engineering site operations technical basis document entitled "Methods to Demonstrate Compliance with Performance Requirements for Swipe Counting and Portable Contamination Survey Instrumentation used to Evaluate Property and Waste for Unrestricted Release", dated June 7, 1995

2.4 Scan Surveys

Surface scans were conducted in each survey unit per two methods 1) with the positionsensitive SCM system and 2) with conventional hand-held NE Electra dual scintillation detectors. The two methods are described in the following sections.

2.4.1 SCM/SIMS Scan Surveys

The majority of the surface scans were conducted using the Surface Contamination Monitor/Survey Information Management System (SCM/SIMS) developed by Shonka Research Associates, Inc (SRA) The SCM/SIMS system consists of a position sensitive proportional counter (PSPC) coupled to a computerized data acquisition system. The PSPC is a long detector that acts as an array of many small radiation detectors. This allows the instrument to measure more area per unit time than a smaller detector and still separate out localized areas of contamination.

The SCM/SIMS detector surface area is 1800 cm² The choice of detectors was based on the floor and wall space available and the interferences in the area. To survey the walls and floor areas, corner detectors were employed or hand-held instruments were utilized (refer to section 2.4.2). The corner detector is a PSPC used in a static count mode with data binned in 5-cm increments. The corner detector accumulates data for ten seconds. The longer count time eliminated the need for a recount. The output of the corner detector is integrated into the SIMS software.

Surveys were conducted in accordance with equipment operation and calibration procedures developed by SRA and incorporated in the Millennium Services, Inc Quality Assurance Plan Detector efficiencies were determined with a NIST traceable Plutonium-238 source with an active area of approximately 50 cm² and an alpha energy of 5 5 MeV. The energy of the source is similar to the 5.1 MeV of Plutonium-239, the principle isotope of the primary suspected contaminant. Periodic quality control checks were performed for each detector in use, and used to establish the efficiency for the detectors based on data that spanned the use of that detector during the survey (refer to Section 5.0). All quality control checks were performed under the same operating and environmental conditions as the surveys in accordance with applicable operating procedures.

The SCM/SIMS sensitivity for the surveys performed in the "A" annex is documented in the B779 project file. The Minimum Detectable Concentration for alpha surveys for 100 cm² areas is 81.3 dpm (refer to "Evaluation of Surface Contamination Monitor/Survey Information Management (SCM/SIMS) for the identification of contamination against the DCGL_{EMC} for the 779 Closure Project at the Rocky Flats Environmental Technology Site"). All RFETS-specified instrument performance requirements are satisfied with SCM/SIMS survey methodology based on data discussion provided in Appendix 5 of the CRSR for Building 729, RF/RMRS-99-358 UN

2.4.2 NE Electra Scan Surveys

Areas that were not scanned with the SCM/SIMS were scanned with the hand-held NE Electra with 100 cm² DP6 probes or NE Electra Plus with 600 cm² DP8 probes

The scan rate for the DP6 was established as 1.5 inches per second in order to comply with the recommendations for probabilities of detection provided in ANSI N13.12, *Draft American National Standards Control of Radioactive Surface Contamination on Materials, Equipment, and Facilities to be Released for Uncontrolled Use* Scanned areas in excess of 225 dpm/100 cm² were flagged. If no flags were identified during the scan, the scan result was recorded as <225 dpm/100 cm² (refer to Tables 7.5 to 7.18)

Areas scanned with the DP8 detectors consisted of eight-second static counts. In the event that the eight-second count exceeded 225 dpm/100 cm², two additional measurements were performed at the same location. If one of the two additional measurements exceeded 225 dpm/100 cm², an investigation was performed

Differentiation between SCM and handheld instrument surveys is captured within each individual survey package that is maintained in the project files

3.0 DCGLs

The surface contamination criteria from DOE Order 5400 5 were used as the DCGLs for the final survey — The applicable transuranic DCGL_W for removable contamination, total surface activity measured by direct surface emission and paint/media samples are as follows

Category	DCGL _w Removable Alpha (dpm/100 cm ²)	DCGL _w Total Alpha (dpm/100 cm ²)	DCGL _{EMC} Total Alpha (dpm/100 cm ²)
Transuranic	20	100	300
Uranium	N/A	5000	15,000

4.0 Background

Final radiological surveys of the "A" annex were focused on alpha emitting isotopes, principally Plutonium-239, and Plutonium-240. Natural activity present in construction materials was not expected to contribute a significant amount to the field measurements. Historical data from other RFETS building indicates that surface emission rates from concrete, typically the material containing the highest quantities of naturally-occurring alpha-emitting isotopes, would contribute negligible activity when compared to the DCGL_{EMC}. Therefore, no material background subtract was performed for alpha surface scan measurements, and results were compared directly to the applicable DCGL_{EMC} defined in Section 3.0

For total surface activity data collected with the NE Electra, a ninety-second background measurement was collected at each total surface activity location. The average of these measurements was calculated, and the mean value subtracted from total surface activity measurements to obtain the net total surface activity results. Refer to the project files for local area background results.

Paint/Surface media samples were analyzed by alpha spectroscopy methods. Individual isotopic data results are contained in Attachments A through N. Transuranic isotopes are not present in natural radioactivity, therefore no background concerns exist. Uranium isotopes, though present in nature, are not expected to exist in significant quantities in paint/surface media samples. As in surface activity measurements, total reported activity from paint/surface media sample analyses was evaluated against the applicable uranium or transuranic DCGL_W defined in Section 3.0

Other than instrument background, which is quantified prior to analysis, background is not a factor during performance of removable contamination surveys. Reported values from the removable contamination surveys were evaluated against the applicable DCGL_w defined in Section 3.0

5.0 Quality Assurance/Quality Control

Quality control for each type of instrument utilized in the "A" annex survey is discussed in the sections below. Additional quality control elements include the Software Quality Control Checklists (Verification of Calculations). These documents were generated for each survey unit (refer to Building 779 Project files) to verify calculations within spreadsheets that ultimately output the values directly compared with DCGLs (Attachments A - N). A data quality assessment (DQA) was also generated to discuss how the project implemented MARSSIM data quality guidelines and applicable DOE quality requirements (Attachment Q).

5.1 Paint/Surface Media Samples

Measures of laboratory precision and accuracy were assessed per applicable laboratory procedures. All QA data indicated that sample results were valid (refer to Attachment Q, Data Quality Assessment)

5.2 Removable Surface Contamination Surveys

The instruments utilized for removable surface contamination analysis (Eberline SAC-4) were calibrated with NIST-traceable sources. A daily background and QC check was also performed. All background and QC checks were within required tolerances as delineated in the Building 779 CRSP RF/RMRS-97-123 UN (also refer to Attachment Q, Data Quality Assessment)

5.3 Total Surface Activity Surveys

An additional 5% of total surface activity measurements were obtained for quality control purposes (refer to Attachments A through N). The results from these measurements were compared to the applicable $DCGL_W$ to ensure survey compliance (i.e., all QC measurements were less than $DCGL_W$). All QC measurements were less than $DCGL_W$ (refer to Attachment Q, Data Quality Assessment)

5.4 Scan Surveys

5.4 1 SCM/SIMS Scan Surveys

Quality control surveys for SCM/SIMS scans were performed with a NIST traceable Plutonium-238 source with an activity of 194,400 dpm. The source, RFETS ID# RS3911, Manufacturer's ID ER716, is a 71 mm x 71 mm (approximately 50 cm²) plated source. The source manufacturer's certificate is in the 779 Closure Project file. Quality control surveys consisted of a minimum of three measurements of the source by the detector in the configuration used in the actual survey. SCM quality control surveys were performed with the source on the floor or wall and the detector assembly moving at the appropriate survey speed (i.e., 0.4 to 0.8 inches/sec). Corner detector quality control surveys consisted of measurements of the source placed on a surface and the data acquisition set for the survey time (i.e., 8 to 10 seconds).

A quality control survey was performed at the beginning and end of each detector use each day and periodically during the surveys. The response of the detector over the duration of its use became the basis for the detector's efficiency. Additionally, each survey was evaluated to ensure that it was bracketed by acceptable quality control surveys. At least two of the three measurements must fall within the specified tolerance (within 20% of the mean of all quality control surveys for each specific detector) in order for the data to be considered valid. The above criteria were satisfied. Therefore, the detector results were considered valid.

Source checks were conducted daily prior to start of survey, whenever the detector configuration was changed, and whenever any other electronic adjustments or maintenance was performed. The mean of the valid quality control surveys, determined from all acceptable results over the duration of the survey, was used to establish the efficiency for a specific detector. Attachment P includes the quality control charts for the SCM/SIMS detectors used during the survey.

5 4 2 NE Electra Scan Surveys

Performance checks were performed on the NE Electra prior to field use. The results were required to fall within the established range (± 20% in accordance with the applicable Radiological Safety Procedures) in order for the instrument and the associated data to be considered valid (refer to Attachment Q, Data Quality Assessment)

6.0 Investigation Methodology

Follow up investigations were conducted for each scan result in excess of 75% of the $DCGL_{EMC}$ (225 dpm/100cm²) by performing a survey of the flagged area with a hand held instrument, the NE Electra with a DP6 probe

Investigation surveys utilizing the NE Electra were performed by first scanning the surrounding suspect area to determine if any elevated activity areas could be identified Following the scan, a shielded local area background measurement (ninty second count) and an unshielded direct measurement (ninty second count) were obtained in the area of highest activity identified during the scan

Remediation and a follow-up survey were performed at each confirmed location that produced an NE Electra result in excess of 225 dpm/100 cm² (as described in Tables 7 5 to 7 18)

Each investigation measurement was documented on an investigation form. In some cases, more than one investigation result was documented for a given grid. All scan investigation results are presented in Tables 7.5 to 7.18

In survey unit 77907, an investigation of one paint/media result in excess of the DCGL $_{\rm W}$ (100 dpm/100 cm 2) was performed by bounding the elevated sample location with eight additional samples within the affected m 2 to ensure the DCGL $_{\rm W}$ for that m 2 was not exceeded. The average uranium and transuranic values for the eight additional media samples and the one original media sample are less than 75% of the applicable DCGL $_{\rm W}$ and all measurements were verified not to exceed the applicable DCGL $_{\rm EMC}$. Therefore based on the B779 Closeout Radiological Survey Plan, the survey unit is acceptable. In addition, the sign test was performed to assure that the mean concentration did not exceed the DCGL $_{\rm W}$ over the survey unit. The sign test passed (i.e. the null hypothesis was rejected), thus the area was deemed acceptable in accordance with MARSSIM (refer to Attachment A)

During the removal of paint from rooms 152/154/160, a temporary wall was erected to prevent the spread of contamination into areas that were being final surveyed. During the hydrolasing process water migrated under the temporary wall. All areas that had water leakage were re-surveyed, and the most recent results were reported. No contamination was detected during this incident.

7.0 Survey Results

7.1 Paint/Surface Media Samples

Paint/surface media samples were obtained in 77907, 77908, 77910, 77921, 77922, 77927, 77928, & 77929 to ensure contamination in excess of the established DCGLs did not exist below painted surfaces or other forms of surface media such as roofing material, floor adhesive, or within the paint or roofing/adhesive material itself. These results were converted to units of surface activity (dpm/100 cm²) in order to compare to the DCGLs. No samples were collected from 77923, 77924, 77925, 77926, or 77949 (Class 1) because the paint or surface media was removed prior to final survey. In addition, in accordance with the CRSP, no media samples were collected from the Class 3 area (77919)

Alpha spectroscopy was performed to determine the activity of Uranium-233/234, Uranium-235, Uranium-238, Plutonium-239/240, and Americium-241 Values for each isotope(s) are reported separately. The data for the survey units where media samples were obtained was below the applicable total uranium and total transuranic DCGL $_{\rm W}$. The number of media samples obtained was verified to be adequate by re-calculating the required number of samples with the actual survey unit sample standard deviation (refer to the "Post Survey Paint/Media Sample Summary Statistics Calculation Verification Worksheet" in the Building 779 project files, for each applicable survey unit). Tables 7.1 and 7.2 summarize the results of the paint/surface media samples

Table 7.1
Paint/Surface Media Summary Results for Transuranics

		Alpha Ac	tivity (dpm/1	00 cm ²)	
Survey Unit	Mınimum	Maximum	Mean	Std. Dev.	DCGL _w
77907	-40 9	37 2 *	4 3	16 1	100
77908	01	48 5	11 5	14 4	100
77910	01	0.8	03	02	100
77921	02	19 3	5 7	59	100
77922	-01	25 5	53	64	100
77927	0.0	13 9	3 7	4 4	100
77928	0.0	58	22	21	100
77929	01	09	0 4	02	100

^{*} The original maximum value for this survey was 164 9 dpm/100 cm² prior to the investigation. Refer to the data summary in Attachment A for additional details

Table 7.2
Paint/Surface Media Summary Results for Uranium

	Alpha Activity (dpm/100 cm²)							
Survey Unit	Mınimum	Maximum	Mean	Std. Dev.	DCGLw			
77907	11	259 5	71 1	66 9	5000			
77908	0 4	134 9	49 4	37 8	5000			
77910	00	10 6	37	42	5000			
77921	02	40 8	17 0	12 1	5000			
77922	20	57 9	15 7	18 5	5000			
77927	42	72 0	27 3	25 5	5000			
77928	03	323 2	84 4	101 7	5000			
77929	0.5	61	20	13	5000			

Detailed sampling instructions and paint/surface media sample results are on file in the Building 779 project files

7.2 Removable Surface Contamination Surveys

Removable contamination measurements were obtained at each accessible grid location in accordance with approved instructions in each survey package. The minimum required removable contamination measurements were obtained for each survey unit. Removable contamination results for each survey unit are presented in Attachments A through N (except for roof investigation data). Surveys were performed at each location from which paint/surface media samples were obtained, ensuring that the minimum required number of smears was collected for each survey unit. For those points, measurements were obtained prior to and after the media sample. For those areas from which no paint/media sample was obtained, a single removable contamination measurement was obtained. The results of all smears show that the removable contamination levels met the DCGL_W described in Section 3.0. The number of

removable activity measurements obtained was verified to be adequate by re-calculating the required number of measurements with the actual survey unit measurement standard (refer to the "Post Survey Removable Contamination Summary Statistics Calculation Verification Worksheet" in the Building 779 project files, for each survey unit) Table 7 3 summarizes the results of removable surface contamination surveys

Table 7.3
Removable Surface Contamination Summary Results

	Alpha Activity (dpm/100 cm²)							
Survey Unit	Mınımum	Maximum	Mean	Std Dev	DCGL			
77907	-0 9	2 4	0.8	13	20			
77908	-1 5	15	-0 8	0.9	20			
77910	-09	2 1	0 5	09	20			
77919	-0 3	27	03	10	20			
77921	0	6	1	2	20			
77922	-06	3 9	0 0	12	20			
77923	-09	2 1	-0 1	10	20			
77924	-0 9	21	-0 1	10	20			
77925	-1 5	12	-0 4	0.8	20			
77926	-0 9	42	0 1	13	20			
77927	-0 6	24	0 4	13	20			
77928	00	15	0 4	0 7	20			
77929	-0 3	27	0 1	0.8	20			
77949	-0 3	27	0 4	10	20			

Detailed survey instructions and removable surface contamination results are on file in the Building 779 project files

7.3 Total Surface Activity Surveys

Total surface activity measurements were obtained in accordance with approved instructions in each survey package, at each accessible grid location, ensuring that the minimum required total surface activity measurements were obtained for each survey unit. Total surface activity survey results for each survey unit are presented in Attachments A through N (except for roof investigation data). Total surface activity surveys were performed at each location where paint/surface media samples were obtained. For those areas where no media sample was obtained, a single total surface activity measurement was obtained. The results of all surveys showed that all total surface activity levels were less than the DCGL_W described in Section 3.0. The number of total surface activity measurements obtained was verified to be adequate by recalculating the required number of measurements with the actual survey unit standard deviation (refer to the "Post Survey Total Surface Activity Summary Statistics Calculation Verification Worksheet" in the Building 779 project files, for each survey unit). Table 7.4 summarizes the total surface contamination survey results

Table 7.4

Total Surface Contamination Summary Results

	Alpha Activity (dpm/100 cm²)						
Survey Unit	Mınımum	Maximum	Mean	Std Dev.	DCGLw		
77907	12 2	66 4	27 5	15 9	100		
77908	-2 4	51 7	19 9	15 5	100		
77910	-4 5	65 5	14 2	18 6	100		
77919	0 9	29 1	12 3	91	100		
77921	-4 5	63 2	17 0	15 4	100		
77922	03	42 2	11 8	10 3	100		
77923	4 7	52 1	23 9	14 8	100		
77924	-09	45 1	19 1	14 8	100		
77925	28	65 0	22 2	159	100		
77926	-27	39 3	14 3	12 0	100		
77927	-9 0	61 4	10 6	16 6	100		
77928	-8 2	40 0	8 9	98	100		
77929	-4 5	25 9	7 5	8 4	100		
77949	-5 6	35 3	11 6	13 3	100		

Detailed survey instructions and total surface contamination results are on file in the Building 779 project files

7.4 Scan Surveys

Scan surveys were performed at the required density in accordance with approved instructions in each survey package. The scan results are presented in Tables 7.5 through 7.18. Survey results are grouped by survey unit. Each survey unit is divided into a number of subunits, which is typically represented by a single surface (e.g. floor, wall < 2 meters, wall > 2 meters, ceiling, etc.). Within each subunit, survey(s) are performed. For SCM scan surveys, a report is automatically generated. For the NE Electra scan surveys, the results are reported as < 225 dpm/100 cm² (given that no areas are flagged for investigation). For both scan methods, survey information is documented on survey forms and maps. A consistent numbering system (per the survey unit numbers outlined in the Final Survey Breakdown Structure, Rev 2) is used to identify the survey unit, subunit, survey number, and type of detector used.

The scan survey overlay maps (refer to Attachment O) delineate the subunit locations so that all surveys can be traced to the location surveyed. The yellow-shaded areas represent areas requiring 100% scan. The green-shaded areas represent requiring 50% scans. The blue-shaded areas represent areas requiring 10% scan. The required scan frequency for each survey unit, per the Closeout Radiological Survey Plan for the 779 Cluster was verified.

Due to the low expected count rate and the random nature of radioactivity, a low occurrence of individual 100 cm² area false positive results is expected. This phenomenon is amplified when using the SCM/SIMS system due to the large amounts of data generated (i.e. a result is recorded for each 25 cm² area scanned). The utilization of a recount detector allows for a rapid evaluation of an area that indicates a higher than

normal value If one detector indicates a slightly elevated reading but the second detector does not confirm the event, the measurement is likely a false positive Readings that approach an investigation level with either detector are averaged with the results from the other detector. An average value in excess of 225 dpm/100 cm² requires an investigation

Surveys taken with the SCM operating in the timer mode are presented as a single survey Survey time for those detectors have been increased to minimize the probability of false positives. Timer mode surveys are performed when the cart mounted motor driven SCM can not physically access an area due to area size, interference, or accessibility. The timer mode setting was 10 seconds, providing the same surface area measurement as the time measured by both the primary and recount operating at 1cm/sec.

7 4.1 Survey Unit 77907 Scan and Investigation Data Summary

Table 7.5 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77907

Table 7.5
Survey Unit 77907 Scan Data Summary

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
00720100	7/19/99	271	00720190	271	28	No	n/a
				225	28	No	n/a
				237	24	No	n/a
				228	0	No	n/a
	}	}		232	12	No	n/a
				229	20	No	n/a
00720200	7/19/99	116	n/a	n/a	n/a	No	n/a
00720300	7/19/99	193	n/a	n/a	n/a	No	n/a
00720400	7/19/99	232	00720490	232	68	No	n/a
00720500	7/19/99	2321	00720590	2321	58	No	n/a
				255	24	No	n/a
				232	60	No	n/a_
	}			580	36	No	n/a
00720600	7/19/99	232	00720690	232	32	No	n/a
00720700	7/19/99	232	00720790	232	12	No	n/a
00720800	7/22/99	348	00720890	348	20	No	n/a
				232	28	No	n/a
				232	44	No	n/a
				232	48	No	n/a
				231	40	No	n/a
				232	20	No	n/a
				232	20	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm²) ⁽³⁾
00720800	7/22/99	348	00720890	232	24	No	n/a
				231	28	No	n/a
00720900	7/22/99	258	00720990	258	4	No	n/a
		}		232	4	No	n/a
				232	48	No	n/a
			}	232	60	No	n/a
				227	56	No	n/a
		!		232	24	No	n/a
			Į.	232	32	No	n/a
			230	64	No	n/a	
00721000	7/22/99	348	00721090	348	84	No	n/a
				232	64	No	n/a
:				232	92	No	n/a
			270	40	No	n/a	
		ļ	ĺ	270	60	No	n/a
:			ĺ	270	60	No	n/a
				232	60	No	n/a
		,		232	32	No	n/a
				232	40	No	n/a
				264	52	No	n/a
				270	56	No	n/a
				271	76	No	n/a
			ĺ	232	32	No	n/a
00721100	7/22/99	541	00721190	541	64	No	n/a
				306	16	No	n/a
				232	8	No	n/a
				364	40	No	n/a
	!			232	16	No	n/a
			ļ	232	8	No	n/a
				271	36	No	n/a
	,		[232	12	No	n/a
				263	12	No	n/a
				229	48	No	n/a
				256	60	No	n/a
•				314	40	No	n/a
				271	16	No	n/a
	,			348	36	No	n/a
:			İ	271	10	No	n/a
				271	10	No	n/a
			ſ	348	36	No	n/a
			į	232	8	No	n/a
i				270	52	No	n/a
00721200	7/22/99	348	00721290	232	84	No	n/a
İ				232	60	No	n/a
Į				263	36	No	n/a

CLOSEOUT RADIOLOGICAL SURVEY REPORT FOR BUILDING 779, Annex "A"

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
00721200	7/22/99	348	00721290	259	32	No	n/a
				232	28	No	n/a
				232	24	No	n/a
				271	32	No	n/a
				271	72	No	n/a
				232	84	No	n/a
	Í	ĺ		263	80	No	n/a
				348	116	No	n/a
				232	68	No	n/a
				261	72	No	n/a
				266	60	No	n/a
				305	28	No	n/a
				232	52	No	n/a
				261	52	No	n/a
00721301	8/25/99	339	00721390	339	32	No	n/a
				305	36	No	n/a
				271	52	No	n/a
				271	44	No	n/a
				237	48	No	n/a
			237	16	No	n/a	
	-		237	48	No	n/a	
				237	84	No	n/a
				237	80	No	n/a
00721401	8/25/99	237	00721490	237	44	No	n/a
				237	36	No	n/a
				237	32	No	n/a
00721500	7/22/99	309	00721590	309	40	No	n/a
	_			295	32	No	n/a
				232	24	No	n/a
				231	28	No	n/a
				232	52	No	n/a
ļ				271	20	No	n/a
				258	88	No	n/a
}			į	232	40	No	n/a
İ			ļ	271	40	No	n/a
}				232	24	No	n/a
				268	72	No	n/a
			ļ	287	40	No	n/a
				232	60	No	n/a
			1	231	44	No	n/a
				232	76	No	n/a
				232	88	No	n/a
<u>_</u>				271	52	No	n/a
00765100	7/26/99	270	00765190	270	20	No	n/a
				270	24	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
00765300	7/26/99	154	n/a	n/a	n/a	No	n/a
00765400	7/26/99	348	00765490	348	84	No	n/a
				230	60	No	n/a
00765500	7/27/99	232	00765590	232	52	No	n/a
00765600	7/27/99	309	00765690	309	28	No	n/a
}				232	-4	No	n/a
00765700	7/27/99	9 270	00765790	270	36	No	n/a
				232	36	No	n/a
00765800	7/27/99	265	00765890	265	80	No	n/a
00766201	9/2/99	271	00766291	271	56	No	n/a
				252	72	No	n/a
				232	72	No	n/a
00766501	9/2/99	266	00766591	266	52	No	n/a
				232	78	No	n/a
				232	120	No	n/a
				232	36	No	n/a
				232	72	No	n/a

- (1) The first six characters represent the survey subunit number. The last two numbers represent the detector type
- (2) NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged
- (3) One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

7.4.2 Survey Unit 77908 Scan and Investigation Data Summary

Table 7 6 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77908

Table 7.6
Survey Unit 77908 Scan Data Summary

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final investigation Value (dpm/100cm ²) ⁽³⁾
00820100 10/22/99	261	00820190	261	40	No	n/a	
			251	40	No	n/a	
			}	236	52	No	n/a
00820191	10/28/99	<225	n/a	n/a	n/a	No	n/a
00820200	10/22/99	472	00820290	472	36	No	n/a
				356	16	No	n/a
		İ	236	20	No	n/a	

Number Date Number (dpm/100cm²) (dpm/10cm²) (nvestigation Value pm/100cm²) ⁽³⁾ n/a n/a n/a n/a
00820200 10/22/99 472 00820290 331 24 No 416 48 No 416 48 No 298 64 No 261 80 No 00820300 10/22/99 181 n/a n/a n/a No 00820500 10/22/99 218 n/a n/a n/a No 00820700 10/22/99 192 n/a n/a n/a n/a No 00820700 10/22/99 181 n/a n/a n/a n/a No 00820800 10/22/99 181 n/a n/a n/a No 00820900 10/22/99 181 n/a n/a n/a No 00821100 10/22/99 120 n/a n/a n/a n/a No 00821200 10/22/99 181 n/a n/a n/a n/a n/a No 00821200 10/22/99 145 </th <th>pm/100cm²) ⁽³⁾ n/a n/a n/a</th>	p m/100cm²) ⁽³⁾ n/a n/a n/a
00820200	n/a n/a n/a
16	n/a
298	
100820300 10/22/99 181 181 181 181 182 183 184	n/a
00820300 10/22/99 181 n/a n/a n/a No 00820500 10/22/99 218 n/a n/a n/a No 00820600 10/22/99 192 n/a n/a n/a No 00820700 10/22/99 167 n/a n/a n/a No 00820800 10/22/99 181 n/a n/a n/a No 00820900 10/22/99 254 00820990 254 20 No 00821100 10/22/99 120 n/a n/a n/a n/a No 00821200 10/22/99 120 n/a n/a n/a n/a No 00821300 10/22/99 181 n/a n/a n/a n/a No 00821400 10/22/99 145 n/a	
00820500 10/22/99 218 n/a n/a n/a No 00820600 10/22/99 192 n/a n/a n/a n/a No 00820700 10/22/99 167 n/a n/a n/a n/a No 00820800 10/22/99 181 n/a n/a n/a n/a No 00820900 10/22/99 254 00820990 254 20 No 00821100 10/22/99 120 n/a n/a n/a n/a No 00821200 10/22/99 109 n/a n/a n/a No No 00821300 10/22/99 181 n/a n/a n/a No No 00821400 10/22/99 185 n/a n/a n/a n/a No 00821401 10/22/99 145 n/a	n/a
00820600 10/22/99 192 n/a n/a n/a No 00820700 10/22/99 167 n/a n/a n/a No 00820800 10/22/99 181 n/a n/a n/a No 00820900 10/22/99 254 00820990 254 20 No 00821100 10/22/99 120 n/a n/a n/a No 00821200 10/22/99 109 n/a n/a n/a No 00821300 10/22/99 181 n/a n/a n/a No 00821400 10/22/99 145 n/a n/a n/a No 00821400 10/22/99 145 n/a n/a n/a n/a No 00821401 10/25/99 108 n/a n/a n/a n/a n/a No 00821501 10/27/99 141 n/a n/a n/a n/a No 00821900 </td <td>n/a</td>	n/a
00820700 10/22/99 167 n/a n/a n/a No 00820800 10/22/99 181 n/a n/a n/a No 00820900 10/22/99 254 00820990 254 20 No 00821100 10/22/99 120 n/a n/a n/a No 00821200 10/22/99 109 n/a n/a n/a No 00821200 10/22/99 181 n/a n/a n/a No 00821300 10/22/99 181 n/a n/a n/a No 00821300 10/22/99 145 n/a n/a n/a No 00821400 10/22/99 145 n/a n/a n/a No 00821401 10/25/99 108 n/a n/a n/a No 00821501 10/27/99 141 n/a n/a n/a No 00821700 10/25/99 1127 00821900	n/a
00820800 10/22/99 181 n/a n/a n/a No 00820900 10/22/99 254 00820990 254 20 No 00821100 10/22/99 120 n/a n/a n/a No 00821200 10/22/99 109 n/a n/a n/a No 00821300 10/22/99 181 n/a n/a n/a No 00821400 10/22/99 145 n/a n/a n/a No 00821401 10/22/99 145 n/a n/a n/a No 00821401 10/25/99 108 n/a n/a n/a No 00821501 10/27/99 156 n/a n/a n/a n/a No 00821601 10/27/99 141 n/a n/a n/a No 00821700 10/25/99 618 00821790 618 618 Yes 00822000 10/25/99 189	n/a
00820900 10/22/99 254 00820990 254 20 No 00821100 10/22/99 120 n/a n/a n/a No 00821200 10/22/99 109 n/a n/a n/a No 00821300 10/22/99 181 n/a n/a n/a No 00821400 10/22/99 145 n/a n/a n/a No 00821401 10/22/99 145 n/a n/a n/a No 00821501 10/27/99 108 n/a n/a n/a No 00821501 10/27/99 156 n/a n/a n/a n/a No 00821601 10/27/99 141 n/a n/a n/a No 00821700 10/25/99 618 00821790 618 618 Yes 00821900 10/25/99 189 n/a n/a n/a n/a 00865100 10/22/99 284	n/a
00821100 10/22/99 120 n/a n/a n/a No 00821200 10/22/99 109 n/a n/a n/a n/a No 00821300 10/22/99 181 n/a n/a n/a n/a No 00821400 10/22/99 145 n/a n/a n/a n/a No 00821401 10/25/99 108 n/a n/a n/a n/a No 00821501 10/27/99 156 n/a n/a n/a n/a No 00821601 10/27/99 141 n/a n/a n/a No 00821700 10/25/99 618 00821790 618 618 Yes 00821900 10/25/99 1127 00821990 1127 16 No 00865100 10/22/99 284 00865190 284 72 No 250 60 No 250 60 No 225	n/a
00821200 10/22/99 109 n/a n/a n/a No 00821300 10/22/99 181 n/a n/a n/a No 00821400 10/22/99 145 n/a n/a n/a No 00821401 10/25/99 108 n/a n/a n/a No 00821501 10/25/99 156 n/a n/a n/a No 00821501 10/27/99 141 n/a n/a n/a No 00821601 10/27/99 141 n/a n/a n/a No 00821700 10/25/99 618 00821790 618 618 Yes 00821900 10/25/99 1127 00821990 1127 16 No 00822000 10/25/99 189 n/a n/a n/a n/a No 284 60 No 284 60 No 250 60 No 225 32 <	n/a
00821300 10/22/99 181 n/a n/a n/a No 00821400 10/22/99 145 n/a n/a n/a No 00821401 10/25/99 108 n/a n/a n/a No 00821501 10/27/99 156 n/a n/a n/a No 00821601 10/27/99 141 n/a n/a n/a No 00821700 10/25/99 618 00821790 618 618 Yes 00821900 10/25/99 618 00821990 1127 16 No 00822000 10/25/99 189 n/a n/a n/a n/a No 00865100 10/22/99 284 00865190 284 72 No 250 60 No 250 60 No 225 32 No 236 52 No 00865200 10/22/99 425 00865290 425 148	n/a
00821400 10/22/99 145 n/a n/a n/a No 00821401 10/25/99 108 n/a n/a n/a No 00821501 10/27/99 156 n/a n/a n/a No 00821601 10/27/99 141 n/a n/a n/a No 00821700 10/25/99 618 00821790 618 618 Yes 00821900 10/25/99 1127 00821990 1127 16 No 00822000 10/25/99 189 n/a n/a n/a n/a No 00865100 10/22/99 284 00865190 284 72 No 250 60 No 250 60 No 250 100 No 225 32 No 236 52 No 236 52 No 00865200 10/22/99 425 00865290 425 148 No	<u>n/a</u>
00821401 10/25/99 108 n/a n/a n/a No 00821501 10/27/99 156 n/a n/a n/a No 00821601 10/27/99 141 n/a n/a n/a No 00821700 10/25/99 618 00821790 618 618 Yes 00821900 10/25/99 1127 00821990 1127 16 No 00822000 10/25/99 189 n/a n/a n/a n/a No 00865100 10/22/99 284 00865190 284 72 No 250 60 No 250 60 No 250 100 No 250 48 No 236 48 No 236 52 No 00865200 10/22/99 425 00865290 425 148 No	n/a
00821501 10/27/99 156 n/a n/a n/a No 00821601 10/27/99 141 n/a n/a n/a No 00821700 10/25/99 618 00821790 618 618 Yes 00821900 10/25/99 1127 00821990 1127 16 No 00822000 10/25/99 189 n/a n/a n/a n/a No 00865100 10/22/99 284 00865190 284 72 No 250 60 No 250 100 No 225 32 No 236 48 No 236 52 No 00865200 10/22/99 425 00865290 425 148 No	n/a
00821601 10/27/99 141 n/a n/a n/a No 00821700 10/25/99 618 00821790 618 618 Yes 00821900 10/25/99 1127 00821990 1127 16 No 00822000 10/25/99 189 n/a n/a n/a No 00865100 10/22/99 284 00865190 284 72 No 284 60 No 250 60 No 250 100 No 250 100 No 236 48 No 236 52 No 00865200 10/22/99 425 00865290 425 148 No 00865200 10/22/99 425 104 No	n/a
00821700 10/25/99 618 00821790 618 618 Yes 00821900 10/25/99 1127 00821990 1127 16 No 00822000 10/25/99 189 n/a n/a n/a No 00865100 10/22/99 284 00865190 284 72 No 284 60 No 250 60 No 250 100 No 225 32 No 236 48 No 236 52 No 00865200 10/22/99 425 00865290 425 148 No 255 104 No	n/a
00821900 10/25/99 1127 00821990 1127 16 No 00822000 10/25/99 189 n/a n/a n/a No 00865100 10/22/99 284 00865190 284 72 No 284 60 No 284 60 No 250 60 No 250 100 No 225 32 No No 236 48 No 00865200 10/22/99 425 00865290 425 148 No 00865200 10/22/99 425 104 No	n/a
00822000 10/25/99 189 n/a n/a n/a No 00865100 10/22/99 284 00865190 284 72 No 284 60 No 284 60 No 250 60 No 250 100 No 225 32 No 236 48 No 236 52 No No 00865200 10/22/99 425 00865290 425 148 No 255 104 No	44
00865100 10/22/99 284 00865190 284 72 No 284 60 No 250 60 No 250 100 No 225 32 No 236 48 No 236 52 No 00865200 10/22/99 425 00865290 425 148 No 255 104 No	n/a
284 60 No	n/a
250 60 No	n/a
250 100 No	n/a
225 32 No	n/a
236 48 No	n/a
00865200 10/22/99 425 00865290 425 148 No 255 104 No	n/a
00865200 10/22/99 425 00865290 425 148 No 255 104 No	n/a
255 104 No	n/a n/a
1 1 1 1 1 1 004 1 C4 1 No 1	n/a
261 64 No	n/a
255 64 No	n/a n/a
255 76 No 255 80 No	n/a
	n/a
	n/a
	n/a
00865300 10/22/99 212 n/a n/a n/a No 00865500 10/22/99 254 00865590 254 24 No	n/a
	n/a
	n/a
	n/a
0000000	n/a
	n/a
0000000 10.2200 20.	n/a
00866100 10/22/99 236 00866190 236 8 No 00866300 10/22/99 130 n/a n/a n/a No	11124

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
00866400	10/22/99	148	n/a	n/a	n/a	No	n/a
00866500	10/22/99	141	n/a	n/a	n/a	No	n/a
00866501	10/25/99	105	n/a	n/a	n/a	No	n/a
00866601	10/27/99	141	n/a	n/a	n/a	No	n/a
00866700	10/25/99	156	n/a	n/a	n/a	No	n/a
00866800	10/25/99	142	n/a	n/a	n/a	No	n/a
00866900	10/25/99	167	n/a	n/a	n/a	No	n/a
00867000	10/25/99	94	n/a	n/a	n/a	No	n/a
00867100	10/15/99	236	00867190	236	8	No	n/a
00867200	10/25/99	156	n/a	n/a	n/a	No	n/a

- The first six characters represent the survey subunit number. The last two numbers represent the detector type.
 NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged.
- (3) One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

7.4.3 Survey Unit 77910 Scan and Investigation Data Summary

Table 7.7 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77910

Table 7.7 **Survey Unit 77910 Scan Data Summary**

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
01000100	8/28/99	232	01000190	232	33	No	n/a
,				232	29	No	n/a
				230	52	No	n/a
01000201	10/25/99	3527	01000292	3527	3282	Yes	16
				238	20	No	n/a
,				458	480	Yes	64
01000291	10/28/99	<225	n/a	n/a	n/a	No	n/a
01000301	10/25/99	203	n/a	n/a	n/a	No	n/a
01000390	10/27/99	<225	n/a	n/a	n/a	No	n/a
01020100	8/28/99	77	n/a	n/a	n/a	No	n/a
01020190	9/22/99	<225	n/a	n/a	n/a	No	n/a
01020200	8/28/99	135	n/a	n/a	n/a	No	n/a
01020300	8/28/99	116	n/a	n/a	n/a	No	n/a
01020400	8/28/99	154	n/a	n/a	n/a	No	n/a
01020500	8/31/99	77	n/a	n/a	n/a	No	n/a
01020590	9/22/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
01020600	8/31/99	<135	n/a	n/a	n/a	No	n/a
01020700	8/31/99	154	n/a	n/a	n/a	No	n/a
01020801	8/31/99	192	n/a	n/a	n/a	No	n/a
01020991	11/2/99	<225	n/a	n/a	n/a	No	n/a
01021001	10/25/99	178	n/a	n/a	n/a	No	n/a
01021090	10/27/99	<225	n/a	n/a	n/a	No	n/a
01021101	10/25/99	436	01021191	436	28	No	n/a
01021192	10/28/99	<225	n/a	n/a	n/a	No	n/a
01021201	10/25/99	189	n/a	n/a	n/a	No	n/a
01021290	10/27/99	<225	n/a	n/a	n/a	No	n/a
01065100	8/28/99	116	n/a	n/a	n/a	No	n/a
01065200	8/31/99	<225	n/a	n/a	n/a	No	n/a
01065301	10/25/99	106	n/a	n/a	n/a	No	n/a
01085100	8/28/99	154	n/a	n/a	n/a	No	n/a
01085200	8/31/99	193	n/a	n/a	n/a	No	n/a
01085301	10/25/99	141	n/a	n/a	n/a	No	n/a

- (1) The first six characters represent the survey subunit number. The last two numbers represent the detector type
- (2) NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged
- (3) One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

7.4.4 Survey Unit 77919 Scan and Investigation Data Summary

Table 7 8 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77919

Table 7.8
Survey Unit 77919 Scan Data Summary

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) (3)	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
01920100	10/22/99	215	n/a	n/a	n/a	No	n/a
01920200	10/22/99	178	n/a	n/a	n/a	No	n/a
01920291	10/28/99	<225	n/a	n/a	n/a	No	n/a
01920300	10/22/99	178	n/a	n/a	n/a	No	n/a
01920400	10/25/99	218	n/a	n/a	n/a	No	n/a
01920990	10/30/99	<225	n/a	n/a	, n/a	No	n/a
01921090	10/30/99	<225	n/a	n/a	n/a	No	n/a
01921100	10/25/99	130	n/a	n/a	n/a	No	n/a
01921200	10/25/99	218	n/a	n/a	n/a	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
01965100	10/22/99	254	01965190	254	16	No	n/a
01965200	10/22/99	145	n/a	n/a	n/a	No	n/a
01965300	10/22/99	143	n/a	n/a	n/a	No	n/a
01965400	10/22/99	183	n/a	n/a	n/a	No	n/a
01965500	10/25/99	145	n/a	n/a	n/a	No	n/a
01965600	10/25/99	122	n/a	n/a	n/a	No	n/a
01965800	10/25/99	130	n/a	n/a	n/a	No	n/a
01965900	10/25/99	145	n/a	n/a	n/a	No	n/a

- (1) The first six characters represent the survey subunit number. The last two numbers represent the detector type
- (2) NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged
- (3) One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

7.4.5 Survey Unit 77921 Scan and Investigation Data Summary

Table 7 9 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77921

Table 7.9
Survey Unit 77921 Scan Data Summary

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02100190	10/5/99	<225	n/a	n/a	n/a	No	n/a
02100200	9/1/99	201	n/a	n/a	n/a	No	n/a
02100290	9/9/99	<225	n/a	n/a	n/a	No	n/a
02100300	9/1/99	277	02100390	277	40	No	n/a
				267	16	No	n/a
				249	16	No	n/a
		! 1		241	8	No	n/a
02100400	9/1/99	289	02100490	289	36	No	n/a
02100491	10/5/99	<225	n/a	n/a	n/a	No	n/a
02100501	10/18/99	218	n/a	n/a	n/a	No	n/a
02100592	10/19/88	<225	n/a	n/a	n/a	No	n/a
02100601	10/18/99	181	n/a	n/a	n/a	No	n/a
02100700	9/1/99	352	02100791	352	16	No	n/a
				302	4	No	n/a
				252	-4	No	n/a
				252	-4	No	n/a
				252	-4	No	n/a
02100790	9/8/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm²) ⁽³⁾
02100800	9/1/99	252	02100890	252	24	No	n/a
02100900	9/1/99	352	02100990	352	88	No	n/a
}				252	8 _	No	n/a
				252	16	No	n/a
				252	16	No	n/a
				252	8	No	n/a
				252	14	No	n/a
				251	40	No	n/a
				251	32	No	n/a
				226	28	No	n/a
				226	32	No	n/a
02101000	9/1/99	301	02101090	301	28	No	n/a
		1		251	36	No	n/a
1			-	251	8	No	n/a
			251	16	No	n/a	
			251	12	No	n/a	
			í	226	-4	No	n/a
				251	-8	No	n/a
02101101	10/18/99	214	n/a	n/a	n/a	No	n/a
02101200	9/1/99	226	02101290	226	28	No	n/a
02101300	9/1/99	352	02101391	352	57	No	n/a
			ì	302	36	No	n/a
	,	i	,	252	4	No	n/a
		1	1	252	24	No	n/a
02101390	9/8/99	<225	n/a	n/a	n/a	No	n/a
02101490	9/14/99	<225	n/a	n/a	n/a	No	n/a
02120100	8/31/99	201	n/a	n/a	n/a	No	n/a
02120190	9/8/99	<225	n/a	n/a	n/a	No	n/a
02120200	8/31/99	251	02120290	251	20	No	n/a
	!	ı	1	251	0	No	n/a
	1		-	226	20	No	n/a
02120291	9/8/99	<225	n/a	n/a	n/a	No	n/a
02120300	8/31/99	251	02120390	251	16	No	n/a
02120391	9/9/99	<225	n/a	n/a	n/a	No	n/a
02120400	8/31/99	226	02120490	226	44	No	n/a
02120500	8/31/99	150	n/a	n/a	n/a	No	n/a
02120590	9/8/99	<225	n/a	n/a	n/a	No	n/a
02120600	8/31/99	201	n/a	n/a	n/a	No	n/a
02120690	9/8/99	<225	n/a	n/a	n/a	No	n/a
02120700	8/31/99	201	n/a	n/a	n/a	No	n/a
02120800	8/31/99	956	02120890	956	336	Yes	24
02120891	9/8/99	<225	n/a	n/a	n/a	No	n/a
02120900	8/31/99	251	02120990	251	16	No	n/a
			i	251	44	No	n/a
				251	44	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02120900	8/31/99	251	02120990	251	36	No	n/a
			'	251	32	No	n/a
	· ~	_		251	32	No	n/a
02121001	9/30/99	193	n/a	n/a	n/a	No	n/a
02121091	10/4/99	<225	n/a	n/a	n/a	No	n/a
02121190	9/9/99	<225	n/a	n/a	n/a	No	n/a
02121201	9/14/99	174	n/a	n/a	n/a	No	n/a
02121290	9/8/99	<225	n/a	n/a	n/a	No	n/a
02121300	9/1/99	150	n/a	n/a	n/a	No	n/a
02121390	9/8/99	<225	n/a	n/a	n/a	No	n/a
02121391	9/14/99	<225	n/a	n/a	n/a	No	n/a
02121392	9/14/99	<225	n/a	n/a	n/a	No	n/a
02121393	10/27/99	<225	n/a	n/a	n/a	No	n/a
02121400	9/1/99	178	n/a	n/a	n/a	No	n/a
02121490	9/14/99	<225	n/a	n/a	n/a	No	n/a
02121501	9/14/99	<225	n/a	n/a	n/a	No	n/a
02121600	8/31/99	252	02121690	252	4	No	n/a
02121691	9/9/99	<225	n/a	n/a	n/a	No	n/a
02121700 8	8/31/99	301	02121790	252	20	No	n/a
			-	302	8	No	n/a
		į	-	249	24	No	n/a
ļ		,	r	252	24	No	n/a
		[301	12	No	n/a
02121791	9/8/99	<225	n/a ,	n/a	n/a	No	n/a
02121800	8/31/99	301	02121890	252	4	No	n/a
				252	12	No	n/a
1	i t			252	12	No	n/a
,			I.	301	16	No	n/a
02121901	9/14/99	153	n/a	n/a	n/a	No	n/a
02121990	9/8/99	<225	n/a	n/a	n/a	No	n/a
02122090	9/7/99	<225	n/a	n/a	n/a	No	n/a
02122190	9/7/99	<225	n/a	n/a	n/a	No	n/a
02122290	9/7/99	<225	n/a	n/a	n/a	No	n/a
02122390	9/7/99	<225	n/a	n/a	n/a	No	n/a
02165100	8/31/99	352	02165190	277	4	No	n/a
1				226	-4	No	n/a
1				352	24	No	n/a
				252	8	No	n/a
				252	8	No	n/a
				252	8	No	n/a
				252	8	No	n/a
,		1	-	352	12	No	n/a
02165191	9/8/99	<225	n/a	n/a	n/a	No	n/a
02165200	8/31/99	302	02165290	302	24	No	n/a
1			_	302	12	No	n/a

CLOSEOUT RADIOLOGICAL SURVEY REPORT FOR BUILDING 779, Annex "A"

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02165200	8/31/99	302	02165290	277	16	No	n/a
				302	12	No	n/a
				226	16	No	n/a
				252	20	No	n/a
				252	-4	No	n/a
				252	24	No	n/a
				226	0	No	n/a
				252	0	No	n/a
				252	16	No	n/a
				226	0 7	No	n/a
				226	12	No	n/a
				205	16	No	n/a
				302	32	No	n/a
02165291	9/8/99	<225	n/a	n/a	· n/a	No	n/a
02165301	9/2/99	252	02165391	252	. 52	No	n/a
				252	24	No	n/a
				252	44	No	n/a
				226	24	No	n/a
02165390	9/8/99	<225	n/a	n/a	n/a	No	n/a
02165401	9/14/99	193	n/a	n/a	n/a	No	n/a
02165490	10/5/99	<225	n/a	n/a	n/a	No	n/a
02165501	9/14/99	154	n/a	n/a	n/a	No	n/a
02165590	9/8/99	<225	n/a	n/a	n/a	No	n/a
02165600	8/31/99	252	1	252	44	No	n/a
0210000	0,01,00	232 02103030	02.0000	252	56	No	n/a
				252	4	No	n/a
02165601	9/2/99	139	n/a	n/a	n/a	No	n/a
02165691	9/8/99	<225	n/a	n/a	n/a	No	n/a
02165700	8/31/99	251	02165790	251	26	No	n/a
02 103 100	0/3//38	201	02103750	251	36	No	n/a
				226	32	No	n/a
		į į		251	12	No	n/a
				251	20	No	n/a
00165701	0/0/00	150		n/a	n/a	No	n/a
02165701	9/2/99		n/a		n/a	No	n/a
02165791	9/8/99	<225	n/a	n/a 251	84	No	n/a
02165800	8/31/99	251	02165890			No	n/a
				251	<u>44</u> 60	No	n/a
				251			n/a
				251	32	No	n/a
				251	40	No	n/a
02165801	9/2/99	150	_ n/a	n/a	n/a	No	n/a
02165891	9/8/99	<225	n/a	n/a	n/a	No	n/a
02165900	8/31/99	251	02165990	226	28	No	n/a n/a
				226	36	No	
				252	16	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02165900	8/31/99	251	02165990	252	8	No	n/a
02166001	9/2/99	150	n/a	n/a	n/a	No	n/a
02166090	9/9/99	<225	n/a	n/a	n/a	No	n/a
02166100	9/2/99	201	n/a	n/a	n/a	No	n/a
02166190	9/9/99	<225	n/a	n/a	n/a	No	n/a
02166200	9/8/99	116	n/a	n/a	n/a	No	n/a
02166290	9/16/99	<225	n/a	n/a	n/a	No	n/a
02166390	9/14/99	<225	n/a	n/a	n/a	No	n/a
02166490	9/14/99	<225	n/a	n/a	n/a	No	n/a
02166500	9/2/99	255	02166590	255	20	No	n/a
†		1		252	4	No	n/a
				226	16	No	n/a
02166591	9/16/99	<225	n/a	n/a	n/a	No	n/a
02166690	9/8/99	<225	n/a	n/a	n/a	No	n/a
02166700	8/31/99	301	02166790	301	20	No	n/a
02166791	9/8/99	<225	n/a	n/a	n/a	No	n/a
02166801	9/13/99	<225	n/a	n/a	n/a	No	n/a
02166890	9/8/99	<225	n/a	n/a	n/a	No	n/a
02166990	9/8/99	<225	n/a	n/a	n/a	No ,	n/a
02166991	9/8/99	<225	n/a	n/a	n/a	No	n/a
02166992	9/10/99	<225	n/a	n/a	n/a	No	n/a
02166993	9/2/99	<225	n/a	n/a	n/a	No	n/a
02167090	9/8/99	<225	n/a	n/a	n/a	No	n/a
02167091	9/8/99	<225	n/a	n/a	n/a	No	n/a
02167092	9/2/99	<225	n/a	n/a	n/a	No	n/a
02167093	9/10/99	<225	n/a	n/a	n/a	No	n/a
02167190	9/2/99	396	02167191	260	64	Yes	n/a
		1		377	64	Yes	n/a
				377	12	Yes	n/a
		t		396	44	Yes	n/a
į		,		296	28	Yes	n/a
02167192	9/8/99	410	02167193	340	116	No	n/a
1	0.0.00	,		248	28	No	n/a
1		t		264	32	No	n/a
i		ı		264	48	No	n/a
-				256	40	No	n/a
j		1		264	76	No	n/a
1				284	8	No	n/a
			-	396	28	No	n/a
		1		248	76	No	n/a
		1		254	4	No	n/a
)		ı		312	48	No	n/a
		ı		396	40	No	n/a
				408	36	No	n/a
			-	382	16	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02167192	9/8/99	410	02167193	410	48	No	n/a
02167194	9/10/99	<225	n/a	n/a	n/a	No	n/a
02167195	9/8/99	<225	n/a	n/a	n/a	No	n/a
02167290	9/8/99	<225	n/a	n/a	n/a	No	n/a
02167291	9/8/99	<225	n/a	n/a	n/a	No	n/a
02167292	9/8/99	<225	n/a	n/a	n/a	No	n/a
02167293	9/2/99	<225	n/a	n/a	n/a	No	n/a
02185190	8/31/99	<225	n/a	n/a	n/a	No	n/a
02185290	9/1/99	<225	n/a	n/a	n/a	No	n/a
02185390	9/2/99	<225	n/a	n/a	n/a	No	n/a
02185391	9/16/99	<225	n/a	n/a	n/a	No	n/a
02185490	9/1/99	<225	n/a	n/a	n/a	No	n/a
02185491	9/1/99	<225	n/a	n/a	n/a	No	n/a
02185501	9/15/99	116	n/a	n/a	n/a	No	n/a
02185590	9/9/99	<225	n/a	n/a	n/a	No	n/a
02185690	9/2/99	<225	n/a	n/a	n/a	No	n/a

- (1) The first six characters represent the survey subunit number. The last two numbers represent the detector type
- (2) NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged
- (3) One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

7.4.6 Survey Unit 77922 Scan and Investigation Data Summary

Table 7 10 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77922

Table 7.10
Survey Unit 77922 Scan Data Summary

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02200102	10/18/99	218	n/a	n/a	n/a	No	n/a
02200192	10/19/99	<225	n/a	n/a	, n/a	No	n/a
02200200 8/23/99	8/23/99	406	02200290	352	28	No	n/a
			· 1	308	8	No	n/a
		1	ſ	233	32	No	n/a
		1		406	56	No	n/a
		1		233	8	No	n/a
	i 	L	•	297	244	Yes	12
		1		264	4	No	n/a
02200200	8/23/99	406	02200290	233	56	No	n/a
		1	•	345	20	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02200291	9/10/99	<225	n/a	n/a	n/a	No	n/a
02200300	8/24/99	484	02200390	484	394	Yes	4
				352	20	No	n/a ,
				257	80	No	n/a
				264	28	No	n/a
_				264	28	No	n/a
02200391	9/10/99	<225	n/a	n/a	n/a	No	n/a
02200402	10/18/99	218	n/a	n/a	n/a	No	n/a
02200492	10/19/99	<225	n/a	n/a	n/a	No	n/a
02200500	8/23/99	615	02200590	226	0	No	n/a
				251	208	No	n/a
				251	36	No	n/a
				615	500	Yes	44
				392	508	Yes	88
02200591	9/10/99	<225	n/a	n/a	n/a	No	n/a
02200600	8/23/99	441	02200690	230	16	No	n/a
				251	12	No	n/a
				301	28	No	n/a
				270	80	No	n/a
				255	0	No	n/a
				255	0	No	n/a
				441	32	No	n/a
			•	271	28	No	n/a
			-	226	12	No	n/a
				301	12	No	n/a
				296	36	Ño	n/a
02200691	9/10/99	<225	n/a	n/a	n/a	No	n/a
02200702	10/18/99	236	02200792	236	28	No	n/a
02200793	10/19/99	<225	n/a	n/a	n/a	No	n/a
02200800	8/23/99	301	02200890	276	16	No	n/a
				301	12	No	n/a
				251	44	No	n/a
				301	0	No	n/a
				255	8	No	n/a
				240	8	No	n/a
				301	392	Yes	48
	~			301	40	No	n/a
02200891	9/11/99	<225	n/a	n/a	n/a	No	n/a
02200900	8/23/99	352	02200990	352	4	No	n/a
				236	36	No	n/a
				251	-8	No	n/a
				301_	-4	No	n/a
				348	16	No	n/a
02200900	8/23/99	352	02200990	251	28	No	n/a
02200991	9/11/99	<225	n/a	n/a	n/a	No	<u>n/a</u>

Scan Survey Number ⁽¹⁾	Survey Date	Max. Result (dpm/100cm²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02201090	9/14/99	<225	n/a	n/a	n/a	No	n/a
02201091	10/19/99	<225	n/a	n/a	n/a	No	n/a
02220100	8/18/99	201	n/a	n/a	n/a	No	n/a
02220190	9/13/99	<225	n/a	n/a	n/a	No	n/a
02220200	8/18/99	199	n/a	n/a	n/a	No	n/a
02220290	9/13/99	<225	n/a	n/a	n/a	No	n/a
02220300	8/18/99	226	02220390	226	36	No	n/a
02220391	9/11/99	<225	n/a	n/a	n/a	No	n/a
02220400	8/18/99	293	02220490	293	32	No	n/a
				252	4	No	n/a
02220491	9/10/99	<225	n/a	n/a	n/a	No	n/a
02220500	8/18/99	301	02220590	301	-8	No	n/a
02220591	9/10/99	<225	n/a	n/a	n/a	No	n/a
02220600	8/18/99	176	n/a	n/a	n/a	No	n/a
02220690	10/29/99	<225	n/a	n/a	n/a	No	n/a
02220700	8/18/99	201	n/a	n/a	n/a	No	n/a
02220790	10/28/99	<225	n/a	n/a	n/a	No No	n/a
02220800	8/18/99	201	n/a	n/a	n/a	No	n/a
02220890	10/28/99	<225	n/a	n/a	n/a	No	n/a
02220900	8/18/99	186	n/a	n/a	n/a	No	n/a
02220990	10/28/99	<225	n/a	n/a	n/a	No	n/a
02221000	8/18/99	50	n/a	n/a	n/a	No	n/a
02221090	10/28/99	<225	n/a	n/a	n/a	No	n/a
02221100	8/19/99	196	n/a	n/a	n/a	No	n/a
02221190	10/28/99	<225	n/a	n/a	n/a	No	n/a
02265100	8/18/99	251	02265190	251	32	No	n/a
02265101	8/18/99	201	n/a	n/a	n/a	No	n/a
02265191	9/10/99	<225	n/a	n/a	n/a	No	n/a
02265200	8/19/99	150	n/a	n/a	n/a	No	n/a
02265290	9/13/99	<225	n/a	n/a	n/a	No	n/a
02265300	8/18/99	201	n/a	n/a	n/a	No	n/a
02265301	8/19/99		02265390	251	12	No	n/a
02265391	10/5/99	<225	n/a	n/a	n/a	No .	n/a
02265400	8/18/99	226	02265490	226	12	No	n/a
02265401	8/19/99	251	02265491	251	28	No	n/a
02265492	9/10/99	<225	n/a	·-	n/a	_ No	n/a
02265500	8/18/99	201	n/a n/a	n/a n/a	n/a	No -	n/a
02265590	10/5/99	<225	ii/a n/a	n/a	n/a	No -	n/a
02265 <u>5</u> 90 02265600	8/18/99	251	02265690	251	48	No	n/a
ULEUJUUU	U 10133	201	022030 3 0	244	40	No	n/a
02265604	9/10/99	-225	n/o	n/a	n/a	No	n/a
02265691 02265700	9/10/99 8/18/99	<225 201	n/a n/a	-	n/a	No No	n/a
		4	n/a n/a	n/a		No	n/a
02265790	10/29/99	<225 541	n/a 02265890	n/a 5/1	n/a	No	n/a
02265800 02265891	8/18/99 9/10/99	541 <225	u/a 02202090	541 n/a	40 _n/a	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02265900	8/18/99	150	n/a	n/a	n/a	No	n/a
02265901	8/19/99	251	02265990	251	8	No	n/a
02265991	10/6/99	<225	n/a	n/a	n/a	No	n/a
02266000	8/19/99	201	n/a	n/a	n/a	No	n/a
02266090	10/5/99	<225	n/a	n/a	n/a	No	n/a
02285190	8/17/99	<225	n/a	n/a	n/a	No	n/a
02285191	8/19/99	· <225	n/a	n/a	n/a	No	n/a
02285192	8/21/99	<225	n/a	n/a	n/a	No	n/a
02285193	8/21/99	<225	n/a	n/a	n/a	No	n/a
02285194	8/23/99	<225	n/a	n/a	n/a	No	n/a
02285195	8/23/99	<225	n/a	n/a	n/a	No	n/a
02285196	9/1/99	<225	n/a	n/a	n/a	No	n/a
02285290	8/24/99	<225	n/a	n/a	n/a	No	n/a
02285291	8/24/99	<225	n/a	n/a	n/a	No	n/a
02285292	8/24/99	<225	n/a	n/a	n/a	No	n/a
02285293	8/24/99	<225	n/a	n/a	n/a	No	n/a
02285294	8/25/99	<225	n/a	n/a	n/a	No	n/a
02285295	8/25/99	<225	n/a	n/a	n/a	No	n/a
02285296	8/25/99	<225	n/a	n/a	n/a	No	n/a
02285297	9/1/99	<225	n/a	n/a	n/a	No	n/a

- (1) The first six characters represent the survey subunit number. The last two numbers represent the detector type
- (2) NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged
- (3) One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

7.4.7 Survey Unit 77923 Scan and Investigation Data Summary

Table 7.11 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77923

Table 7.11
Survey Unit 77923 Scan Data Summary

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02300101 , 10/19/99	/99 2945	02300191	2945	1119	Yes	40	
			527	208	No	n/a	
02300201	10/19/99	225	02300291	225	48	No	n/a
02300301	10/19/99	1072	02300391	1072	666	Yes	44
				252	88	No	n/a
				290	60	No	n/a
				225	-8	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Eiectra investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02300401	10/19/99	272	02300491	272	112	No	n/a
i		1		254	44	No	n/a
ı	1		,	254	96	No	n/a
•		}	, ,	254	56	No	n/a
02300501	10/19/99	218	n/a ,	n/a	n/a	No	n/a
02300590	10/19/99	<225	n/a	n/a	n/a	No	n/a
02300601	10/19/99	363	02300690	363	4	No	n/a
02320100	10/7/99	193	п/а	n/a	n/a	No	n/a
02320190	10/11/99	<225	n/a	n/a	n/a	No	n/a
02320200	10/7/99	246	02320290	246	4	No	n/a
02320291	10/13/99	<225	n/a	n/a	n/a	No	n/a
02320300	10/7/99	255	02320390	255	24	No	n/a
02320391	10/12/99	<225	n/a	n/a	n/a	No	n/a
02365100	10/7/99	<225	n/a	n/a	n/a	No	n/a
02365190	10/29/99	<225	n/a	n/a	n/a	No	n/a
02365200	10/7/99	193	n/a	n/a	n/a	No	n/a
02365300	10/7/99	266	02365390	266	16	No	n/a
02365391	10/12/99	<225	n/a	n/a	n/a	No	n/a
02385100	10/11/99	<225	n/a	n/a	n/a	No	n/a
02385190	10/7/99	<225	n/a	n/a	n/a	No	n/a
02385200	10/11/99	<225	n/a	n/a	n/a	No	n/a
02385290	10/7/99	<225	n/a	n/a	n/a	No	n/a
02385300	10/11/99	<225	n/a	n/a	n/a	No	n/a
02385390	10/8/99	<225	n/a	n/a	n/a	No	n/a
02385400	10/11/99	<225	n/a	n/a	n/a	No	n/a
02385490	10/8/99	<225	n/a	n/a	n/a	No	n/a
02385491	10/13/99	<225	n/a	n/a	n/a	No	n/a

The first six characters represent the survey subunit number. The last two numbers represent the detector type.
 NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged.
 One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present.

7.4.8 Survey Unit 77924 Scan and Investigation Data Summary

Table 7 12 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77924

Table 7.12 Survey Unit 77924 Scan Data Summary

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm²) ⁽³⁾
02400101	10/26/99	178	n/a	n/a	n/a	No	n/a
02400191	10/27/99	<225	n/a	n/a	n/a	No	n/a
02400201	10/19/99	225	02400291	225	4	No	n/a
02400301	10/19/99	225_	02400390	225	28	No	n/a
02400401	10/19/99	236	02400491	236	272	Yes	0
02400501	10/26/99	509	02400592	509	40	No	n/a
02400593	10/27/99	<225	n/a	n/a	n/a	No	n/a
02400601	10/26/99	331	02400690	331	40	No	n/a
				284	84	No	n/a
02400790	10/21/99	<225	n/a	n/a	n/a	No	n/a
02400890	10/21/99	<225	n/a	n/a	n/a	No	n/a
02420100	10/7/99	667	02420190	667	4	No	n/a
				255	28	No	n/a
				228	8	No	n/a
02420101	10/26/99	720	02420192	720	496	Yes	24
				313	348	Yes	16
02420191	10/12/99	<225	n/a	n/a	n/a	No	n/a
02420193	10/27/99	<225	n/a	n/a	n/a	No	n/a ,
02420300	10/7/99	232	02420390	232	40	No	n/a
02420391	10/12/99	<225	n/a -	n/a	n/a	No	n/a
02420490	10/21/99	<225	n/a	n/a	n/a	No	n/a
02465100	10/7/99	189	n/a	n/a	n/a	No	n/a
02465101	10/26/99	214	n/a	n/a	n/a	No	n/a
02465190	10/27/99	<225	n/a	n/a	n/a	No	n/a
02465200	10/7/99	120	n/a ¯	n/a	n/a	No	n/a
02465290	10/29/99	<225	n/a	n/a	n/a	No	n/a
02465300	10/7/99	189 ¯	n/a	n/a ¯	n/a	No	n/a
02465390	10/29/99	<225	n/a	n/a	n/a	No	n/a
02485100	10/11/99	170	n/a	n/a	n/a	No	n/a
02485101	10/26/99	218	n/a	n/a	n/a	No	n/a
02485190	10/9/99	<225	n/a	n/a	n/a	No	n/a
02485191	10/14/99	<225	n/a	n/a	n/a	No	n/a
02485192	10/27/99	<225	n/a	n/a	n/a	No	n/a
02485200	10/11/99	178	n/a	n/a	n/a	No	n/a
02485201	10/26/99	177	n/a	n/a	n/a	No	n/a
02485290	10/13/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02485291	10/9/99	<225	n/a	n/a	n/a	No	n/a
02485292	10/27/99	<225	n/a	n/a	n/a	No	n/a

- (1) The first six characters represent the survey subunit number. The last two numbers represent the detector type
- (2) NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged
- (3) One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

Detailed scan survey instructions and results are on file in the Building 779 project files

7 4.9 Survey Unit 77925 Scan and Investigation Data Summary

Table 7 13 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77925

Table 7.13
Survey Unit 77925 Scan Data Summary

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02500102	10/21/99	291	02500190	291	_ 4	No	n/a ַ
02500191	10/29/99	<225	n/a	n/a	n/a	No	n/a
02500201	10/20/99	400	02500290	400	622	Yes	20
				327	244	Yes	124
				290	56	No	n/a
				363	272	Yes	32
02500291	10/27/99	<225	n/a	n/a	n/a	No	n/a
02500301	10/21/99	256	02500390	256	68	No	n/a
				247	68	No	n/a
02500391	10/29/99	<225	n/a	n/a	n/a	No	n/a
02500401	10/21/99	1381	02500490	1381	774	Yes	68
02500491	10/28/99	<225	n/a	n/a	n/a	No	n/a
02500501	10/21/99	8108	02500590	784	790	Yes	168
				8108	8352	Yes	128
				436	372	Yes	136
				291	144	No	n/a
02500602	10/21/99	261	02500690	261	52	No	n/a [~]
				250	108	No	n/a
				225	60	No	n/a
				225	44	No	n/a
02500701	10/21/99	455	02500790	455	504	Yes	68
				255	248	Yes	12
				255	4	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm²) ⁽³⁾
02500701	10/21/99	455	02500790	364	24	No	n/a
				255	108	No	n/a
	+			364	244	Yes	56
02500801	10/21/99	364	02500890	364	276	Yes	60
	1		m	291	88	No	n/a
	· · · · · · · · · · · · · · · · · · ·			255	44	No	n/a
02500901	10/21/99	, 345	02500990	345	336	Yes	47
				290	52	No	n/a
	l			290	16	No	n/a
		h		236	40	No	n/a
02501001	10/21/99	255	02501090	255	20	No	n/a
02501102	10/20/99	272	02501191	272	48	No	n/a
	<u> </u>			243	20	No	n/a
02501201	10/20/99	436	02501290	436	444	Yes	60
				361	56	No	n/a
	1			252	44	No	n/a
				236	28	No	n/a
				250	48	No	n/a
				229	8	No	n/a
1	ı 1			225	20	No	n/a
1	1			400	252	Yes	24
				330	408	Yes	24
ł	1			225	32	No	n/a
1	1			254	228	Yes	40
f	i			233	28	No	n/a
				231	48	No	n/a
				261	32	No	n/a
				225	88	No	n/a
02501291	10/22/99	<225	n/a	n/a	n/a	No	n/a
02501301	10/20/99	541	02501390	541	360	Yes	48
ı	ı			356	36	No	n/a
ļ	l			262	64	No	n/a
1				225	64	No	n/a
l	i		,	363	20	No	n/a
				291	76	No	n/a
				251	68	No	n/a
,				329	28	No	n/a
				237	2 <u>8</u> 4 <u>8</u>	No	n/a
	ı			237	56	No	n/a
i				269	24	No	n/a
02501401	10/20/99	272	02501490	272	12	No	n/a
				228	12	No	n/a
,				254	32	No	n/a
,				261	16	No	n/a
02501491	10/22/99	<225	n/a	n/a	n/a	No	n/a

Final	Scan	Max Result	Investigation	Scan value	Electra	Decon	Final
Scan Survey	Survey Date	(dpm/100cm ²) ⁽²⁾	Survey	>75% of EMC	Investigation	required	Investigation
Number ⁽¹⁾	Date		Number	(dpm/100cm ²)	Result (dpm/100cm ²) ⁽³⁾	(y/n)	Value (dpm/100cm ²) ⁽³⁾
02501501	10/20/99	290	02501590	290	16	No	n/a
				250	72	No	n/a
				246	56	No	n/a
				226	28	No	n/a
				250	48	No	n/a
-	~			240	40	No	n/a
02501690	10/21/99	800	n/a	572	n/a	Yes	<225
				512	n/a	Yes	<225
				800	n/a	Yes	<225
02520101	10/21/99	320	02520190	320	28	No	n/a
				25 5	16	No	n/a
				255	20	No	n/a
02520201	10/21/99	214	n/a	n/a	n/a	No	n/a
02520290	10/25/99	<225	n/a	n/a	n/a	No	n/a
02520302	10/21/99	181	n/a	n/a	n/a	No	n/a
02520391	10/29/99	<225	n/a	n/a	n/a	No	n/a
02520401	10/21/99	307	02520493	307	24	No	n/a
02520492	10/25/99	<225	n/a	n/a	n/a	No	n/a
02520501	10/21/99	284	02520591	273	40	No	n/a
				255	12	No	n/a
				284	12	No	n/a
02520601	10/21/99	215	n/a	n/a	n/a	No	n/a
02520691	10/25/99	<225	n/a	n/a	n/a	Ño	n/a
02520701	10/21/99	325	02520792	325	36	No	n/a
02520791	10/25/99	<225	n/a	n/a	n/a	No	n/a
02520890	10/21/99	<225	n/a	n/a	n/a	No	n/a
02565101	10/21/99	225	02565191	225	0	No	n/a
02565201	10/21/99	618	02565291	618	678	Yes	24
02565290	10/26/99	<225	n/a	n/a	n/a	No	n/a
02565301	10/21/99	257	02565391	257	180	No	n/a
02565390	10/26/99	<225	n/a	n/a	n/a	No	n/a
02565401	10/21/99	218	n/a	n/a	n/a	No	n/a
02565491	10/26/99	-<225 ⁻	n/a	n/a	n/a	No	n/a
02565501	10/21/99	255	02565591	255	28	No	n/a
02565601	10/21/99	187	n/a	n/a	n/a	No	n/a
02565691	10/26/99	<225	n/a	n/a	n/a	No	n/a
02565701	10/21/99	181	n/a	n/a	n/a	No	n/a
02565791	10/26/99	<225	n/a	n/a	n/a	No	n/a
02585101	10/20/99	302	02585192	302	32	No	n/a
J2505101	1012 1133	502	02000 13Z	225	0	No	n/a
				225	76	No	i/a n/a
				252 252	68	No	n/a
				252 251	 76	No	n/a
						No	n/a
02505402	40 <i>l0El</i> 00	~22E	n/s	255		+	n/a
02585193	10/25/99	<225	n/a	n/a	n/a	No	ູເມα

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max. Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02585194	10/28/99	<225	n/a	n/a	n/a	No	n/a
02585201	10/21/99	189	n/a	n/a	n/a	No	n/a
02585291	10/25/99	<225	n/a	n/a	n/a	No	n/a
02585301	10/21/99	225	02585391	225	32	No	n/a
02585392	10/22/99	<225	п/а	n/a	n/a	No	n/a
02585393	10/28/99	<225	n/a	n/a	n/a	No	n/a
02585401	10/21/99	400	02585492	254	156	No	n/a
			}	327	856	Yes	28
			•	400	192	No	n/a
02585490	10/15/99	<225	n/a	n/a	n/a	No	n/a
02585493	10/26/99	<225	n/a	n/a	n/a	No	n/a
02585494	10/26/99	<225	n/a	n/a	n/a	No	n/a
02585501	10/21/99	1249	02585594	866	1258	Yes	52
				1249	1594	Yes	84
			ł	330	152	No	n/a
Į.			; i	247	28	No	n/a
1			,	244	4	No	n/a
02585595	10/26/99	<225	n/a	n/a	n/a	No	n/a
02585596	10/22/99	<225	n/a	n/a	n/a	No	n/a
02585601	10/21/99	567	02585694	567	32	No	n/a
			} ,	291	44	No	n/a
			1	255	76	No	n/a
02585693	10/21/99	<225	n/a	n/a	n/a	No	n/a
02585695	10/28/99	<225	n/a	n/a	n/a	No	n/a

⁽¹⁾ The first six characters represent the survey subunit number. The last two numbers represent the detector type

Detailed scan survey instructions and results are on file in the Building 779 project files

 ⁽²⁾ NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged
 (3) One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

7.4.10 Survey Unit 77926 Scan and Investigation Data Summary

Table 7 14 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77926

Table 7.14
Survey Unit 77926 Scan Data Summary

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm²) ⁽³⁾
02600104	10/18/99	1082	02600192	363	180	No	n/a
				233	28	No	n/a
				436	252	Yes	12
				1082	1142	Yes	44
				225	8	No	n/a
02600191	10/20/99	<225	n/a	n/a	n/a	No	n/a
02600203	10/18/99	225	02600294	225	20	No	n/a
1				225	28	No	n/a
02600293	10/20/99	<225	n/a	n/a	n/a	No	n/a
02600304	9/22/99	232	02600392	232	60	No	n/a
02600391	9/9/99	<225	n/a	n/a	n/a	No	n/a
02600401	9/1/99	271	02600490	271	16	No	n/a
				271	16	No	n/a
			,	252	20	No	n/a
				232	44	No	n/a
			•	232	52	No	n/a
				232	16	No	n/a
02600501	9/1/99	658	02600590	658	357	Yes	24
				348	172	No	n/a
02600591	9/9/99	<225	n/a	n/a	n/a	No	n/a
02600601	9/1/99	348	02600690	348	268	Yes	68
				310	236	Yes	60
				310	256	Yes	36
				232	248	Yes	24
02600691	9/9/99	348	02600692	348	20	No	n/a
02600700	8/30/99	813	02600790	813	80	No	n/a
				252	40	No	n/a
02600792	9/24/99	<225	n/a	n/a	n/a	No	n/a
02600800	8/30/99	540	02600890	540	140	No	n/a
;			ŕ	271	56	No	n/a
1				232	60	No	n/a
02600900	9/15/99	310	02600990	228	12	No	n/a
			ļ	310	8 28	No	n/a
				271	28	No	n/a
				310	4	No	n/a
				270	4	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02600900	9/15/99	310	02600990	270	12	No	n/a
02600991	9/22/99	n/a	n/a	n/a	_n/a	No	n/a
02601000	9/15/99	270	02601090	232	48	No	n/a
				230	12	No	n/a
				232	32	No	n/a
				230	64	No	n/a
				230	-4	No	n/a
				232	8	No	n/a
				270	40	No	n/a
				232	32	No	n/a
02601102	10/18/99	240	02601193	240	24	No	n/a
02601192	10/28/99	<225	n/a	n/a	n/a	No	n/a
02601201	10/18/99	236	02601292	236	276	Yes	8
02601291	10/27/99	<225	n/a	n/a	n/a	No	n/a
02601300	9/15/99	232	02601390	232	8	No	n/a
				232	56	No	n/a
				226	40	No	n/a
02620100	8/30/99	245	02620190	245	20	No	n/a
				226	20	No	n/a
02620201	9/1/99	154	n/a	n/a	n/a	No	n/a
02620301	9/22/99	193	n/a	n/a	n/a	No	n/a
02620400	8/30/99	252	02620490	252	36	No	n/a
				252	20	No	n/a
02620500	8/30/99	154	n/a ¯	n/a	n/a	No	n/a
02620600	8/30/99	193	n/a	n/a	n/a	No	n/a
02620700	8/30/99	135	n/a	n/a	_ n/a	No	n/a
02620790	9/13/99	770	02620791	770	n/a	Yes	60
				284	n/a	Yes	28
				634	n/a	Yes	4
02620800	8/30/99	193	n/a	n/a	n/a	No	n/a
02620901	9/16/99	855	02620991	226	64	No	n/a
				301	16	No	n/a
				301	8	No	n/a
				579	396	Yes	0
				352	204	No	n/a
				302	292	Yes	0
				226	36	No	n/a
				226	148	No	n/a
				302	28	No	n/a
				855	384	Yes	12
				302	148	No	n/a
				402	244	Yes	24
				252	16	No	n/a
				302	28	No	n/a
				252	36	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02620901	9/16/99	855	02620991	252	32	No	n/a
02621000	8/30/99	174	n/a	n/a	n/a	No	n/a
02621100	8/30/99	155	n/a	n/a	n/a	No	n/a
02621200	8/30/99	154	n/a	n/a	n/a	No	n/a
02621290	9/13/99	352	02621291	352	n/a	Yes	24
02621300	8/30/99	76	n/a	n/a	n/a	No	n/a
02621390	10/5/99	<225	n/a	n/a	n/a	No	n/a
02621400	8/30/99	116	n/a	n/a	n/a	No	n/a
02621490	9/9/99	<225	n/a	n/a	n/a	No	n/a
02621500	9/15/99	251	02621590	251	4	No	n/a
02621591	10/5/99	<225	n/a	n/a	n/a	No	n/a
02621600	9/15/99	251	02621690	251	4	No	n/a
				251	8	No	n/a
02621700	9/15/99	251	02621790	251	40	No	n/a
02621800	9/15/99	58	n/a	n/a	n/a	No	n/a ¯¯¯
02621900	9/15/99	154	n/a	n/a	n/a	No	n/a
02665100	8/30/99	150	n/a	n/a	n/a	No	n/a
02665190	9/23/99	<225	n/a	n/a	n/a	No	n/a
02665201	9/22/99	154	n/a	n/a	n/a	No	n/a
02665300	9/2/99	201	n/a	n/a	n/a	No	n/a
02665301	9/2/99	277	02665390	277	28	No	n/a
	0.2.00			252	32	No	n/a
				252	32	No	n/a
				252	-12	No	n/a
				226	32	No	n/a
02665391	9/23/99	<225	n/a	n/a	n/a	No	n/a
02665400	9/2/99	150	n/a	n/a	n/a	No	n/a
02665401	9/2/99	251	02665490	251	20	No	n/a
02665491	10/6/99	<225	n/a	n/a	n/a	No	n/a
02665492	9/23/99	<225	n/a	n/a	n/a '	No	n/a
02665500	8/30/99	116	n/a	n/a	n/a	No	n/a
02665600	8/30/99	116	n/a	n/a	n/a	No	n/a
02665700	8/30/99	155	n/a	n/a	n/a	No	n/a
02665790	9/13/90	<225	n/a	n/a	n/a	No	n/a
02665800	8/30/99	155	n/a	n/a	n/a	No	n/a
02665900	8/30/99	155	n/a	n/a	n/a	No	n/a
02666000	8/30/99	155	n/a	n/a	n/a	No	n/a
02666100	8/30/99	154	n/a	n/a	n/a	No	n/a
02666200	8/30/99	116	n/a	n/a	n/a	No	n/a
02666290	9/13/99	<225	n/a	n/a	n/a	No	n/a
02666300	8/30/99	116	n/a	n/a	n/a	No	n/a
02666301	9/2/99	201	n/a	n/a	n/a	No	n/a
		<225	n/a	n/a	n/a	No	n/a
02666390 02666391	9/14/99 10/29/99	<225 <225	n/a	n/a	n/a	No	n/a
		S//3	11124	I V CI	111 (2)		1 17 total

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Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02666401	9/2/99	155	n/a	n/a	n/a	No	n/a
02666490	9/14/99	<225	n/a	n/a	n/a	No	n/a
02666500	9/22/99	154	n/a	n/a	n/a	No	n/a
02666590	9/24/99	<225	n/a	n/a	n/a	No	n/a
02666601	9/22/99	232	02666691	232	12	No	n/a
02666690	9/24/99	<225	n/a	n/a	n/a	No	n/a
02666701	10/4/99	186	n/a	n/a	n/a	No	n/a
02666790	10/4/99	<225	n/a	n/a	n/a	No	n/a
02666800	9/15/99	154	n/a	n/a	n/a	No	n/a Ì
02666890	9/24/99	<225	n/a	n/a	n/a	No	n/a
02666891	10/29/99	<225	n/a	n/a	n/a	No	n/a
02666900	9/15/99	154	n/a	n/a	n/a	No	n/a
02666990	9/24/99	<225	n/a	n/a	n/a	No	n/a
02666991	10/29/99	<225	n/a	n/a	n/a	No	n/a
02685190	8/30/99	<225	n/a	n/a	n/a	No	n/a
02685191	9/1/99	<225	n/a	n/a	n/a	No	n/a
02685192	9/21/99	<225	n/a	n/a	n/a	No	n/a
02685290	8/30/99	<225	n/a	n/a	n/a	No	n/a
02685291	8/31/99	<225	n/a	n/a	n/a	No	n/a
02685390	8/31/99	<225	n/a	n/a	n/a	No	n/a
02685490	8/30/99	<225	n/a	n/a	n/a	No	n/a
02685590	8/31/99	<225	n/a	n/a	n/a	No	n/a
02685690	8/31/99	<225	n/a	n/a	n/a	No	n/a
02685691	8/31/99	<225	n/a	n/a	n/a	No	n/a
02685692	9/1/99	<225	n/a	n/a	n/a	No	n/a
02685790	9/17/99	<225	n/a	n/a	n/a	No	n/a
02685791	9/18/99	<225	n/a	n/a	n/a	No	n/a
02685890	9/16/99	<225	n/a	n/a	n/a	No	n/a
02685891	9/16/99	<225	n/a	n/a	n/a	No	n/a
02685892	9/16/99	<225	n/a	n/a	n/a	No	n/a
02685893	9/17/99	<225	n/a	n/a	n/a	No 1	n/a
02685990	9/15/99	<225	n/a	n/a	n/a	No	n/a
02685991	9/20/99	<225	n/a	n/a	n/a	No	n/a
02686090	9/15/99	<225	n/a	n/a	n/a	No	n/a
02686091	9/20/99	<225	n/a	n/a	n/a	No	n/a

Detailed scan survey instructions and results are on file in the Building 779 project files



The first six characters represent the survey subunit number. The last two numbers represent the detector type.
 NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged.
 One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

7.4.11 Survey Unit 77927 Scan and Investigation Data Summary

Table 7 15 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77927

Table 7.15
Survey Unit 77927 Scan Data Summary

Final Scan Survey	Scan Survey Date	Max Result (dpm/100cm ²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result	Decon required (y/n)	Final Investigation Value
Number ⁽¹⁾	0/45/00	L	00700404	L	(dpm/100cm ²) (3)		(dpm/100cm²) (3)
02700100	9/15/99	302	02700191	302	0 20	No No	<u>n/a</u>
				252	20	No	n/a
{				252	4	No .	<u>n/a</u>
}				252	16	No	n/a
j				252	20	No	n/a
00700400	0.100,100	.005	,	246	-8 ,	No	n/a
02700190	9/23/99	<225	n/a	n/a	n/a	No	<u>n/a</u>
02700201	10/19/99	563	02700290	563	24	No	n/a
20-20-00	10/00/00	40.5	,	290	4	No	n/a
02700291	10/28/99	<225	n/a	n/a	n/a	No	n/a
02700301	10/18/99	290	02700393	290	240	Yes	4
		=		225	12	No	n/a
02700393	10/28/99	<225	n/a	<u>n/a</u>	<u>n/a</u>	No	n/a
02700400	10/7/99	309	02700491	232	48	No	n/a
				252	52	No	n/a
				232	44	No	n/a
,				309	24	No	n/a
				231	52	No	n/a
				270	92	No	n/a
				232	_52	No	n/a
				270	96	No	n/a
02700490	10/8/99	<225	n/a	n/a	n/a	No	n/a
02700500	10/7/99	309	02700590	232	44	No	n/a
				228	64	No	n/a
				270	16	No	n/a
				309	40	No	<u>n/a</u>
				309	12	No	n/a
				226	32	No	n/a
			1	309	_36	No	n/a
02700591	10/8/99	<225	n/a	n/a	n/a	No	n/a
02720100	9/17/99	201	n/a	n/a	n/a	No	n/a
02720190	9/23/99	<225	n/a	n/a	n/a	No	n/a
02720200	9/16/99	276	02720290	276	4	No	n/a
02720300	9/16/99	251	02720390	251	20	No	n/a
02720400	9/16/99	150	n/a	n/a	n/a	No	n/a
02720500	10/7/99	174	n/a	n/a	n/a	No	n/a

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Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02720590	10/14/99	<225	n/a	n/a	n/a	No	n/a
02720600	10/7/99	136_	n/a	n/a	n/a	No	n/a
02720690	10/19/99	<225	n/a	n/a	n/a	No	n/a
02720700	10/7/99	150	n/a	n/a	n/a	No	n/a
02720790	10/15/90	<225	n/a	n/a	n/a	No	n/a
02720800	10/7/99	154	n/a	n/a	n/a	No	n/a
02720890	10/14/99	<225	n/a	n/a	n/a	No	n/a
02720900	10/7/99	154	n/a	n/a	n/a	No	n/a
02720990	10/19/99	<225	n/a	n/a	n/a	No	n/a
02765100	9/16/99	247	02765191	247	8	No	n/a
02765190	9/23/99	<225	n/a	n/a	n/a	No	n/a
02765200	9/16/99	201	n/a	n/a	n/a	No	n/a
02765290	9/23/99	<225	n/a	n/a	n/a	No	n/a
02765300	9/16/99	251	02765390	251	12	No	n/a
			,	226	12	No	n/a
02765400	9/16/99	251	02765491	251	28	No	n/a
02765490	9/23/99	<225	n/a	n/a	n/a	No	n/a
02765492	10/29/99	<225	n/a	n/a	n/a	No	n/a
02765500	10/8/99	205	n/a	n/a	n/a	No	n/a
02765590	10/20/99	<225	n/a	n/a	n/a	No	n/a
02765600	10/8/99	193	n/a	n/a	n/a	No	n/a
02765690	10/20/99	<225	n/a	n/a	n/a	No	n/a
02765700	10/8/99	150	n/a	n/a	n/a	No	n/a
02765790	10/26/99	<225	n/a	n/a	n/a	No	n/a
02765800	10/8/99	189	n/a	n/a	n/a	No	n/a
02765890	10/26/99	<225	n/a	n/a	n/a	No	n/a
02765900	10/8/99	201	n/a	n/a	n/a	No	n/a
02765901	10/12/99	190	n/a	n/a	n/a	No	n/a
02765990	10/26/99	<225	n/a	n/a	n/a	No	n/a
02785190	10/20/99	<225	n/a	n/a	n/a	No	n/a
02785290	9/20/99	<225	n/a	n/a	n/a	No	n/a
02785390	9/20/99	<225	n/a	n/a	n/a	No	n/a
02785490	9/21/99	<225	n/a	n/a	n/a	No	n/a
02785590	10/20/99	<225	n/a	n/a	n/a	No	n/a

Detailed scan survey instructions and results are on file in the Building 779 project files

The first six characters represent the survey subunit number. The last two numbers represent the detector type.
 NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged.
 One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

7.4.12 Survey Unit 77928 Scan and Investigation Data Summary

Table 7 16 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77928

Table 7.16
Survey Unit 77928 Scan Data Summary

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02800190	9/1/99	<225	n/a	n/a	n/a	No	n/a
02800290	9/1/99	<225	n/a	n/a	n/a	No	n/a
02800390	9/1/99	<225	<u>n</u> /a	n/a	n/a	No	n/a
02800490	8/31/99	288	n/a	288	n/a	Yes	100
02800590	9/9/99	<225	n/a	n/a	n/a	No	n/a
02800690	9/1/99	<225	n/a	n/a	n/a	No	n/a
02800790	9/9/99	<225	n/a	n/a	n/a	No	n/a
02820101	8/13/99	203	n/a	n/a	n/a	No	n/a
02820190	10/25/99	<225	n/a	n/a	n/a	No	n/a
02820201	8/13/99	169	n/a	n/a	n/a	No	n/a
02820290	10/25/99	<225	n/a	n/a	n/a	No	n/a
02820301	8/13/99	169	n/a	n/a	n/a	No	n/a
02820390	10/25/99	<225	n/a	n/a	n/a	No	n/a
02820401	8/16/99	169	n/a	n/a	n/a	No	n/a
02820490	10/25/99	<225	n/a	n/a	n/a	No	n/a
02820501	8/13/99	237	02820590	237	118	No	n/a
02820591	10/25/99	<225	n/a	n/a	n/a	No	n/a
02820601	8/13/99	1117	02820690	1117	400	Yes	76
				474	16	No	n/a
02820691	10/25/99	<225	n/a	n/a	n/a	No	n/a
02820701	8/13/99	169	n/a	n/a	n/a	No	n/a
02820790	10/27/99	<225	n/a	n/a	n/a	No	n/a
02820801	8/13/99	203	n/a	n/a	n/a	No	n/a
02820901	8/13/99	101	n/a	n/a	n/a	No	n/a
02820990	10/27/99	<225	n/a	n/a	n/a	No	n/a
02865101	8/16/99	507	02865190	507	16	No	n/a
02865201	8/16/99	232	02865290	232	0	No	n/a
02865301	8/16/99	169	n/a	n/a	n/a	No	n/a
02865401	8/16/99	135	n/a	n/a	n/a	No	n/a
02865501	8/16/99	169	n/a	n/a	n/a	No	n/a
02865601	8/16/99	168	n/a	n/a	n/a	No	n/a
02865701	8/16/99	440	02865790	440	28	No	n/a
02865801	8/16/99	135	n/a	n/a	n/a	No	n/a
02865901	8/16/99	135	n/a	n/a	n/a	No	n/a
02885101	8/16/99	169	n/a	n/a	n/a	No	n/a

- (1) The first six characters represent the survey subunit number. The last two numbers represent the detector type
- (2) NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged
- (3) One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

Detailed scan survey instructions and results are on file in the Building 779 project files

7.4.13 Survey Unit 77929 Scan and Investigation Data Summary

Table 7 17 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77929

Table 7.17
Survey Unit 77929 Scan Data Summary

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm²) ⁽³⁾
02900100	8/24/99	3507	02900190	226	4	No	n/a
				226	-4	No	n/a
				226	4	NO	n/a
				226	4	No	n/a
				3507	32	No	n/a
				302	-12	No	n/a
				277	8	No	n/a
				252	-4	No	n/a
				252	-12	No	n/a
				252	-20	No	n/a
				252	-20 -8	No	n/a
				248	4	No	n/a
				248	0	No	n/a
02900191	10/9/99	<225	n/a	n/a	n/a	No	n/a
02900200	8/24/99	252	02900290	252	-24	Ñõ	n/a
				252	-28	No	n/a
				252	-1Ž	Ño	n/a
				252	-20	No	n/a
				252	-20	No	n/a
				252	-4	No	n/a
				226	16	No	n/a
				225	12	Nõ	n/a
				252	-16	No	n/a
02900291	10/9/99	<225	n/a	n/a	n/a	No	n/a
02900300	8/24/99	302	02900390	302	8	No	n/a
				252	16	No	n/a
				252	20	No	n/a
				252	-4	No	n/a
				249	0	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm²) ⁽³⁾
02900400	8/24/99	352	02900490	352	4	No	n/a
				302	-4	No	n/a
				302	16	No	n/a
				302	4	No	n/a
				252	20	No	n/a
				252	8	No	n/a
				252	8	No	n/a
				252	-8	No	n/a
				252	0	No	n/a
				226	4	No	n/a
				226	-4	No .	n/a
				226	-4	No	n/a
				226	0	No	n/a
02900491	10/9/99	<225	n/a	n/a	n/a	No	n/a
02900500	8/24/99	453	02900590	252	-12	No	n/a
		-		252	-4	No	n/a
				252	4	No	n/a
				252	4	No	n/a
				252	16	No	n/a
				248	68	No	n/a
				226	-4	No -	n/a
				226	4	No	n/a
				226	4	No	n/a
				453	16	No	n/a
				453	8	No	n/a
				377	44	No	n/a
				352	16	No No	n/a
				352 352	12	No .	n/a
				302	. 0	No	n/a
					20	No	n/a
				302	-8	No	n/a
				277			
22000504	40/0/00	400F	/	252	-4	No No	n/a
02900591	10/9/99	<225	n/a	n/a	n/a	No	n/a
2900600	8/24/99	352	02900691	352	12	No	n/a -
				252	4	No	n/a
				252	-4	No	n/a
				252	4	No	n/a
				252	0	No	n/a
				226	4	No	n/a
				226	20	No	n/a
2900690	10/6/99	<225	n/a	n/a	n/a	No	n/a
2900692	10/9/99	<225	n/a	n/a	n/a	No	n/a
2900700	10/7/99	348	02900790	228	28	No	n/a
				296	40	No	n/a
				348	36	No	n/a

Final	Scan	Max Result	Investigation	Scan value	Electra	Decon	Final
Scan	Survey Date	(dpm/100cm ²) (2)	Survey Number	>75% of EMC (dpm/100cm ²)	Investigation Result	required	Investigation
Survey Number ⁽¹⁾	Date		Mailiber	(apina roociii)	(dpm/100cm ²) (3)	(y/n)	Value (dpm/100cm ²) ⁽³⁾
02900700	10/7/99	348	02900790	259	20	No	n/a
02900791	10/8/99	<225	n/a	n/a	n/a	No	n/a ¯
02900800	10/7/99	360	02900890	230	8	No	n/a
				360	12	Ño	n/a
02900891	10/12/99	<225	n/a	n/a	n/a	No	n/a
02920101	8/31/99	116	n/a	n/a	n/a	No	n/a
02920201	10/8/99	178	n/a	n/a	n/a	No	n/a
02920290	10/15/99	<225	n/a	n/a	n/a	No	n/a
02920301	8/31/99	116	n/a	n/a	n/a	No	n/a
02920390	10/9/99	<225	n/a	n/a	n/a	No	n/a
02920401	8/31/99	154	n/a	n/a	n/a	No	n/a
02920490	9/13/99	<225	n/a	n/a	n/a	No	n/a
02920501	8/31/99	116	n/a	n/a	n/a	No	n/a
02920590	10/9/99	<225	n/a	n/a	n/a	No	n/a
02920601	8/31/99	154	n/a	n/a	n/a	No	n/a
02920690	10/9/99	<225	n/a	n/a	n/a	No	n/a
02920701	8/31/99	154	n/a	n/a	n/a	No	n/a
02920790	10/9/99	<225	n/a	n/a	n/a	No	n/a
02920800	10/7/99	154	n/a	n/a	n/a	No	n/a
02920890	10/21/99	<225	n/a	n/a	n/a	No	n/a
02920900	10/7/99	139	n/a	n/a	n/a	No	n/a
02920990	10/21/99	<225	n/a	n/a	n/a	No	n/a_
02921000	10/7/99	144	n/a	n/a	n/a	No	n/a
02921090	10/21/99	<225	n/a	n/a	n/a	No	n/a
02921100	10/7/99	125	n/a	n/a	n/a	No	n/a
02921190	10/21/99	<225	_n/a	n/a	n/a	No	n/a
02921200	10/7/99	150	n/a	n/a	n/a	No	n/a
02921290	10/21/99	<225	n/a	n/a	n/a	No	n/a
02921300	10/7/99	154	n/a	n/a	n/a	No	n/a
02921390	10/22/99	<225	n/a	n/a	n/a	No	n/a
02921400	10/7/99	77	n/a	n/a	n/a	No	n/a
02921490	10/21/99	<225	n/a	n/a	n/a	No No	n/a
02921500	10/7/99	154	n/a	n/a	n/a	No	n/a
02921590	10/21/99	<225	n/a	n/a	n/a	No	n/a
02921600	10/7/99	127	n/a	n/a	n/a	No	n/a
02921690	10/21/99	<225	n/a	n/a	n/a	No	n/a
02965101	8/31/99	77	n/a	n/a	n/a	No	n/a
02965301	8/31/99	96	n/a	n/a	n/a	No	n/a
02965401	8/31/99	77	n/a	n/a	n/a	No	n/a
02965501	8/31/99	185	n/a	n/a	n/a	No No	n/a
02965601	8/31/99	116	n/a	n/a	n/a	No	n/a
02965701	8/31/99	116	n/a	n/a	n/a	No	n/a
02965800	10/7/99	178	n/a	n/a	n/a	No	n/a
02965900	10/7/99	150	n/a	n/a	n/a	No	n/a
02966000	10/7/99	154	n/a	n/a	n/a	No	n/a

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm²)	Electra Investigation Result (dpm/100cm ²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
02966100	10/7/99	158	n/a	n/a	n/a	No	n/a
02966200	10/7/99	154	n/a	n/a	n/a	No	n/a
02966300	10/7/99	76	n/a	n/a	n/a	No	n/a
02966400	10/7/99	240	02966490	240	36	No	n/a
02966500	10/7/99	183	n/a	n/a	n/a	Ño	n/a
02966600	10/7/99	139	n/a	n/a	n/a	No	n/a
02985101	8/31/99	116	n/a	n/a	n/a	Ño	n/a
02985190	8/26/99	<225	n/a	n/a	n/a	No	n/a
02985200	8/31/99	116	n/a	n/a	n/a	No	n/a

- (1) The first six characters represent the survey subunit number. The last two numbers represent the detector type
- (2) NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged
- (3) One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

Detailed scan survey instructions and results are on file in the Building 779 project files

7.4.14 Survey Unit 77949 Scan and Investigation Data Summary

Table 7 18 summarizes the SCM/SIMS and NE Electra scans and follow-up investigations conducted in survey unit 77949

Table 7.18
Survey Unit 77949 Scan Data Summary

Final Scan Survey Number ⁽¹⁾	Scan Survey Date	Max Result (dpm/100cm ²) ⁽²⁾	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm ²)	Electra Investigation Result (dpm/100cm²) ⁽³⁾	Decon required (y/n)	Final Investigation Value (dpm/100cm ²) ⁽³⁾
04900100	10/22/99	192	n/a	n/a	n/a	No	n/a
04900190	10/26/99	<225	n/a	n/a	n/a	No	n/a
04900200	10/22/99	189	n/a	n/a	n/a	No	n/a
04900290	10/26/99	<225	n/a	n/a	n/a	No	n/a
04900300	10/22/99	287	04900391	287	32	No	n/a
04900390	10/26/99	<225	n/a	n/a	n/a	No	n/a
04900400	10/22/99	183	n/a	n/a	n/a	No	n/a
04900490	10/26/99	<225	n/a	n/a	n/a	No	n/a
04900500	10/22/99	290	04900591	290	40	No	n/a
04900590	10/26/99	<225	n/a	n/a	n/a	No	n/a
04900600	10/22/99	307	04900691	240	28	No	n/a
				234	0	No	n/a
				307	12	No	n/a
04900690	10/26/99	<225	n/a	n/a	n/a	No	n/a

- (1) The first six characters represent the survey subunit number. The last two numbers represent the detector type
- (2) NE Electra scan results are reported as < 225 dpm/100 cm² when no areas are flagged
- (3) One-square meter averages are verified as less than 75 dpm/100 cm² when individual measurements in excess of 100 dpm/100 cm² are present

Detailed scan survey instructions and results are on file in the Building 779 project files

8.0 Conclusion

All survey/sample data collected from the B779 "A" Annex and loading dock interior and exterior surfaces were collected in accordance with the Closeout Radiological Survey Plan for the 779 Cluster and approved survey instructions. All data were verified and validated as described in Attachment Q and are, therefore, satisfactory for comparison with release criteria.

Finally, all survey/sample results presented in this report are less than DCGLs as defined by the Closeout Radiological Survey Plan for the 779 Cluster

ATTACHMENT A Survey Unit 77907 Data Summary

SURVEY UNIT 77907 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGL_W=

>75% and <100% of DCGL_{w =}

Greater Than or Equal to DCGL_w≈



55

Survey Unit 77907 Data Summary

Total Surface Activity Measurements	Removable Activity Measurements MIN -0.9 dpm/100 cm² MAX 2.4 dpm/100 cm² MAX 2.4 dpm/100 cm² TD DEV 1.3 dpm/100 cm² NSURANIC 20 dpm/100 cm² ACtivity Activity Total Transuranic Results MIN 40.9 dpm/100 cm² MAX 37.2 dpm/100 cm² MEAN 4.3 dpm/100 cm²
DCGL _w 5000 dpm/100 cm ² DCGL _w 100	00 dpm/100 cm²

Survey Unit 77907 Building 779 Total Surface Contamination Results

		Saline Activity Survey	uvity survey							
meter model		NE Electra w/ DP6 Probe					Qualit	Quality Control Survey	Survey	
Instrument #	1194	2358	4370	Local Area	Local Area Bkgd (cpm)	NEE	NE Electra w/ DP6 Probe	9	Local Area	Local Area Riend (nom)
Cal Due Date	10/22/99	1/19/00	10/8/05	The second secon	20	1375	N/A	ΝΑ	***************************************	4.3
Efficiency (c/d)	0 221	0 220	0 222			12/8/99	N/A	N/A		
		Total Surface	Actuato Man		The second second second	0.219	N/A	N/A		
Sample Location		and an arrange weasurements	ACTIVITY MEASU	rements			Quality Co	Quality Control Measurements	urements	
Number	Serial #	Date	(com)	MDA (dram/100 cm²)					MDA (dpm/100	
-	1194	07/31/99	16.7	33.4	(apm/100 cm²)	Serial #	Date	(cpm)	cm²)	(dpm/100 cm²)
2	2358	07/31/89	:	35.4	66.4	1375	8/4/99	29	442	10.0
3	1194	07/31/99	2 6	32.7	42.3	1375	8/4/99	107	44.2	200
4	2358	07/31/90		32.4	27.1					7.7
2	1194	201010	87	32.7	30.5					
9	2358	88/15/10	80	32.4	27.1					
_	2007	07/31/99	80	32.7	27.3					
	5.	07/31/99	73	32.4	23.9					
0 0	2358	07/31/99	4.7	32.7	12.3					
8	1194	07/31/99	53	32.4	77					
10	2358	07/31/99	53	32.7	n (1					
=	1194	07/31/99	10.7	3 8	0 61					
12	2358	07/31/89		32.4	39.3					
13	1194	07/31/99	200	32.7	150					
14	1194	07/31/90	200	32.4	149					
15	1194	07/24/00	(3	32.4	23.9					
16	1370	07/31/99	73	32.4	23.9					
17	1194	07/24/00	4	32.4	12.2					
18	1194	BRIISHO	47	32.4	12.2					
19	0207	07/31/99	8.7	32.4	30.3					
	13/0	07/31/99	16.0	32.4	63.1					
				MIN	12.2					
				MAX	66 4					
				MEAN	27.5					
				SD	15.9					

Survey Unit 77907 Building 779 Smear Results

Smear Location		Sme	Smear Results		
Number	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm²)	VON
1	1069	7/31/99	0.5	00	7.5
2	1069	7/31/99	0.5		10
3	1069	7/31/99	10	60	10
4	1069	7/31/99	10	2.4	0/1
5	1069	7/31/99	0.5	7 0	10
9	1069	7/31/99	200	600	13
	1069	7/31/00		60	3
000	1060	7124100	00	9 0-	7.5
0	1060	7/31/99	10	2.4	7.5
, ,	6001	//31/99	0.0	9 0-	7.5
2;	1069	7/31/99	00	90-	7.5
11	1069	7/31/99	10	24	7.5
71	1069	7/31/99	0.0	90-	7.5
13	1069	7/31/99	00	9 0-	7.5
14	1053	8/2/99	0.5	90	α α
15	1053	8/2/89	10	2.1	0 00
16	1069	7/31/99	00	90-	7.5
- 5	1053	8/2/99	10	2.1	0 00
200	1053	8/2/99	00	6 0-	0 00
81	1069	7/31/99	0.5	60	75
			MIN	60-	
			MAX	2.4	
			MEAN	8 0	
3.			SD	13	
			Transuranic DCGL _w	20	

	TRANSURANIC	(dpm/100cm²) DCGL _w =100	Control of the Contro	The second secon			6.7			Market Commence of the Commenc		5.1			the same of the sa		2.8	0.7					6.0-				43					15.3			:	ec ec
	3	(apm/100cm ⁻) DCGL _W =5000			69 1					80 4	The second secon				32.5	The second secon		The second secon		33.7	the second secon		The second secon		787					69 0				6 00	50.3	
de Resulta	ESTIMATED MDA	(dpm/100cm²)	12.1	85	121	89	94	51	6.4	0.6	0.9	7.8	106	62	50	6.4	7.5	106	63	06	112	8.7	8.2	10 1	8.2	111	12.0	22	7 0 7	711	0 / 0	84	2	110	113	10.5
Survey Unit 77907 Building 779 Paint/Solid Media Sample Results	INDIVIDUAL	(dpm/100cm²)	2/2	0.0	32.0	333	35	343	-	39 0	22	2.9	134	23	16.7	00	28	210	2.2	10 5	6 0-	0.0	42.3	0.0	363	0.0	28.4	25	38.4	28	125	272		33.1	00	38
nt/Solid	SURFACE	AREA (in²)	P				0	5				,	5		1_		1	6 - 1			1		6 -T	L			40	<u></u>		<u></u>	1	40	L	1_	L.	
779 ⊬а	WEIGHT	(g) 223 75					161 16	2				101 57					170 07	18871				1000	Z/9 64			-	181 40					298 20	_			
uıldıng	MDA	1	┞	ـــ	0.046	1	ㅗ	0.046	0.065	0.043	0.056	0.00	0 040	0 032	0044	000	0070		2000	0000	0000	2000	0034	0 0 34	0.046	0 050	0 035	0 043	0 072	0 049	0 054	╆┪	0 043	0 035	0 044	0 041
907 B		0 193	0000	0 166	0 017	0 018	0 247	0 051	0 281	0 016	0 021	0.086	0 015	0 107	0000	0018	0 140	0 045	200	900		176	000	0 151	0000	0 0 18	0 180	0 016	0 246	0 018	080 0	\vdash	000	129	2000	013
rey Unit 77	NUCLIDE	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	4	1	1	104	-	3	┰	T		+-		\exists		9	_	U-233/234 (0-735	_	\$	MI1-241 10
Sur	SITE SAMPLE ID	001 002					002 002					003 002					004 002					005 002			1		000 000			=1		007 002 L		1_	-1_	
	SAMPLE LOCATION NUMBER	_					7					က					4				_	2					9				1		_			
	LOCATION DESCRIPTION	Roof				9000	1002					K001					Roof					Roof					Koot				9000					

TRANSURANIC TOTAL (dpm/100cm²)	001-M 3500								32.1					-40 9					0.0					99					37.2					0.2
URANIUM TOTAL (dpm/100cm²)	2005 W-2000		37.5				191 7	The second secon				55 1					1159	and the second s				714					259 5					11		
ESTIMATED MDA	0.6	62	0.6	00	19.1	13.2	107	13.5	59 1	13.8	12.9	10.5	8.0	47.2	0.2	8.7	12.2	9.1	9.5	7.5	93	7.5	8.4	93		he original)	lary			03	0.2	0.2	0.2	0.2
INDIVIDUAL NUCLIDE (dpm/100cm²)	6.7	0.0	30.8		78.0	146	99 1	51	27.0	30 3	16	23 1	0 0	-409	643	6.4	45 1	00	00	33.0	0.0	38 4	3.2	34		Represents the average of 9 samples (includes the original)	Refer to pages 8 and 9 of this data summary			0.4	0 1	0.7	01	0.1
SURFACE AREA (In²)	40				40	<u>.</u>	<u> </u>	! !		40	LL				40					40						e of 9 sam	8 and 9 of			6	*	1		
WEIGHT (g)	176 39				327 30					211 24					240 50					207 40			_			he averag	to pages			3 66				
MDA (pCi/g)	0 059	0 041	0.039	0 045	0 068	0 047	0 038	0 048	0 210	0 076	0 071	0 058	0 044	0 260	0 034	0 042	0 059	0 044	0 046	0 042	0 052	0 042	0 047	0 052		resents t	Refer			0 089	0 053	0 075	0 061	8000
Влод	0 044	0000	0 000	0000	0 277	0 052	0 352	0 018	960 0	0 167	600 0	0 127	0000	-0 225			_	$\overline{}$	0 000	0 185	0000	0 215	0 018	0 019		Rec			3	0 113	0 019	0 213	0 038	10 021
NUCLIDE	U-233/234	U-235	DI1-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241
SITE SAMPLE ID	008 002				009 005					010 002			-		011 002					012 002					013 002					014 002				
SAMPLE LOCATION NUMBER	8				6					0		-			7			-		12					13					14				
LOCATION DESCRIPTION	Roof				Roof					Roof					Roof		,			Roof					Roof					Door				

Survey Unit 77907 Building 779 Paint/Solid Media Sample Results

Survey Unit 77907 Building 779 Faint/Solid Media Sample Results

			- CS 1	AL EV											
TRANSURANIC TOTAL (dpm/100cm²)	001-M-100				0.1					0.2					0 8
URANIUM TOTAL (dpm/100cm²)	The second secon		2.1					2.0					48 1	CONTRACTOR OF THE PARTY OF THE	
ESTIMATED MDA	0.2	0.2	0.2	0.2	0.2	0.2	0.2	03	0.4	0.2	3.1	2.2	3.1	22	2.3
INDIVIDUAL NUCLIDE (dpm/100cm²)	13	00	0.8	0.1	00	11	00	60	00	03	22.9	32	22.1	0 8	0.0
SURFACE AREA (m²)	40	<u> </u>		-	L	40		<u>. </u>	I	L	40	<u> </u>	<u> </u>	<u></u>	
WEIGHT (9)	4 82					4 82					54 67				
MDA (pCu/g)	0 043	0 054	0 043	0 051	0 057	0 037	0 046	0 077	060 0	0 055	0 065	0 046	0 065	0 046	0 049
bCr/g	0 321	0000	0 192	0 0 19	0000	0 260	0000		-0 007	0 061	0 486	290 0		0 017	0000
NUCLIDE	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241
SITE SAMPLE ID	015 002					016 002					017 002				
SAMPLE LOCATION NUMBER	15					16					17				
LOCATION DESCRIPTION	Door					Door					Wall				

Z	11	-40 9
MAX	259 5	37.2
MEAN	71 1	43
SD	6 99	161
DCGL _w =	2000	100

Survey Unit 77907 Investigation Results

TRANSURANIC TOTAL (dpm/100cm²) DCGL ==100					164 9					25 6					160					13.9					19.2					33 3					32.2
URANIUM TOTAL (dpm/100cm²) DCGL w=5000			92.1					1958					227 1					3617					252 0					4010					3117		
ESTIMATED MDA (dpm/100cm²)	99	8.2	117	8.7	9.4	110	13.8	19.4	115	115	119	14.4	208	13.5	148	126	156	258	126	185	23.1	138	23.1	126	13.5	30.4	319	256	150	150	14.2	17.6	14.2	25 3	180
INDIVIDUAL NUCLIDE (dpm/100cm²)	417	12.1	383	144 1	208	736	101	1121	42	21 4	147 9	16.0	63.2	51	10 9	1540	116	196 1	0 0	139	1115	5.1	135 4	14 1	5 1	1743	24 2,	202 5	55	278	1426	99	162 6	190	13.1
SURFACE AREA (m²)	40					40	<u> </u>	!	<u>. </u>		40		L	!-.		40	 -	اليا			40	<u>. </u>				40	-		·	•	4	<u> </u>	,		
WEIGHT (g)	203 06					326 63					372 86	-				385 03					348 31	•		-		425 68					402 21				
MDA (pci/g)	0 038	0 047	0 067	0 0 0 0 0 0	0 054	0 039	0 049	690 0	0 04	0 054	0 037	0 045	0 065	0 042	0 046	0 038	0 047	0 078	0 038	0 056	0 077	0 046	0 077	0 042	0 045	0 083	0 087	0 0 0 0	0 041	0 041	0 041	0 051	0 041	0 073	0.052
bCi/g	0 239		0 219		0 119	0 262	0 036	668 0	0 044	0 02	0 461	0 020	0 197	0.016	0 034	0 465	0 035	0 592	000	0 042	0 372	0.017	0 452	0 047	0 017	0 476	990 0	0 553	0 015	9200	0.412	0 0 1 9	0 4 7 0	0 055	0 038
NUCLIDE	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241
SITE SAMPLE ID	013 002					001 001					002 001					003 001					004 001					005 001					006 001				
SAMPLE LOCATION NUMBER	13					∢					89					O					Ω		" _			m m			-		L				
LOCATION DESCRIPTION	Annex A Roof					Annex A Roof					Annex A Roof					Annex A Roof					Annex A Roof					Annex A Roof					Annex A Roof				

Survey Unit 77907 Investigation Results

039 325 57 40 96 9	U-235 0 036 0 048	1069	041	50	039 354 53 40 142 1	55	1363	156	860
U-233/234 0	U-235 0	U-238 0	Pu-239/240 0	Am-241 0	U-233/234 0	U-235 0	U-238 0	Pu-239/240 0	Am-241 0
100 200					008 001				
9					エ				
Annex A Roof					Annex A Roof				

_	92.1	13.4
1	4010	164 9
	259 5	37.2
	93.2	48 5
	2000	100

ATTACHMENT B Survey Unit 77908 Data Summary

SURVEY UNIT 77908 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGL_w=

>75% and <100% of DCGL_{w=}

... Greater Than or Equal to DCGL_w₌



Survey Unit 77908 Data Summary

Total Surface Activ		ity Measurements	Remova	ble Activity	Removable Activity Measurements
	15 Number Required	20 Number Obtained		15 Number Required	20 Number Obtained
MIN MAX MEAN STD DEV	-2.4 51.7 19.9 15.5	dpm/100 cm² dpm/100 cm² dpm/100 cm² dpm/100 cm²	MIN MAX MEAN STD DEV	-15 15 -08	dpm/100 cm² dpm/100 cm² dpm/100 cm² dpm/100 cm²
TRANSURANIC DCGL _W	100	dpm/100 cm²	TRANSURANIC DCGL _W	20	dpm/100 cm²
		Media San	Media Sample Activity		
	Media Samples	13 * Number Required	14 Number Obtained		
Tota	Total Uranium Results	ts 1	H	Total Transuranic Results	ic Results
MIN MAX MEAN STD DEV DCGL _W	04 134 9 49 4 37 8 5000	dpm/100 cm ² dpm/100 cm ² dpm/100 cm ² dpm/100 cm ² dpm/100 cm ²	MIN MEAN STD DEV DCGL _W	01 48 5 11 5 14 4	dpm/100 cm ² dpm/100 cm ² dpm/100 cm ² dpm/100 cm ²

* Based on actual sample standard deviation (refer to "Post Survey Paint/Media Sample Summary Statistics Calculation Verification Worksheet" in the Building 779 project files)

Survey Unit 77908 Building 779 Total Surface Contamination Results

ation Serial # 1194 1194 1194 1194 1194 1194 1194 1194 1194 11970 1370			Total Surface Activity Surrey	Wife Supress							
194 194 1970 1040 10	Meter Model		NF Flectes w/ DDe Dest	and Salvey				Alterio	To make a		
Deal Date 10020999 10020999 10020999 10020999 100209999 100209999 100209999 100209999 100209999 1002099999 1002099999 100209999999	Instrument #		1970		Local Area	Bkgd (cpm)	N N	lactor and	Control	Survey	
Total Surface Activity Measurements 1972	Cal Due Date	10/22/89	0/51	NA NA		80	1	COLO W/ UPO Probe		Local Are	Bkgd (cpm)
Total Surface Activity Measurements	Efficiency (c/d)	0.224	10/8/99	ΝΑ			0000	ANA	ΝΑ		37
Total Surface Activity Measurements Total Surface Activity Measurements Serial # Date Cerology Cerology Cerology Serial # Date Cerology Cerology Serial # Date Cerology Serial # Serial # Date Cerology Serial # Seri		7770	0 222	N/A			3/2/00	NA	N/A		
Charles Section Charles Char			Total Surface	ctivity Measur	ements		0.213	N/A	N/A		
Multiple Serial s Date Cipm MOA (dimitito cm²) Serial s Date Cipm MOA (dimitito cm²) Serial s Date Cipm MOA (dimitito cm²) Serial s Date Cipm MOA (dimitito cm²)	Sample Location							Quality Co	ntrol Meas	Siremente	
1 1194 OGONGGO CPPU MCM (ADM/100 cm²) (ADM/100 cm²) Sprint Dufe (CPM) MCM (ADM/100 cm²) CPM MCM (ADM/100 cm²) CPM (CPM) (CPM) <td>Number</td> <td>Serial #</td> <td>Date</td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Number	Serial #	Date	,							
2 1164 COLUMNO 60 31 1184 Columno		1194		(cbm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	-		MDA (dpm/100	
3 1144 0.06,0.990 3.3 3.1 6.6 4 1194 0.06,0.990 2.0 3.1 6.6 5 1194 0.06,0.990 4.0 3.1 2.4 7 1194 0.06,0.990 3.3 3.1 6.6 8.0 8 1194 0.06,0.990 3.3 3.1 6.6 8.0 4.3 8 1370 0.041,0.99 10.0 3.1 27.8 1.295 1.020-9 10 1370 0.041,0.99 6.0 3.1 1.8 1.295 1.020-9 16 1370 0.041,0.99 6.0 3.1 1.8 1.295 1.020-9 16 1370 0.041,0.99 6.0 3.1 1.8 1.020-9 18 1.154 0.040,0.99 6.0 3.1 1.8 1.020-9 19 1370 0.041,0.99 6.0 3.1 1.8 1.020-9 19 1370 0.041,0.99 6.	-		08/09/99	0.9	31	100	# Internal	Date	(cpm)	cm²)	(dpm/100 cm²)
1194 080099 20 31 66 66 66 66 66 66 66		1194	66/08/0	33	5	8 0					
4 1194 050/096 13 31 08 5 1114 080/096 13 31 24 6 1194 080/096 40 31 66 8 7 1370 081/096 100 31 56 8 120 43 9 1370 081/099 100 31 27 8 1205 133 43 10 1370 081/099 100 31 18 8 1265 102099 80 43 16 1370 081/099 60 31 18 8 1265 102099 80 43 16 1370 081/099 60 31 18 8 188 1265 102099 80 43 17 1370 081/099 60 31 18 8 18 18 18 19 1370 081/099 60 31 18 8 18 18 18 18 18 18	2	1194	66/60/80		5	9 9					
6 1184 OLOUNDS 13 31 24 7 1184 OLOUNDS 40 31 98 8 1184 OLOUNDS 33 31 66 8 1370 OLOUNDS 100 31 168 1726 1070099 19 1370 OLOUNDS 100 31 278 1726 107009 43 16 1370 OLOUNDS 40 31 98 1285 107009 80 43 16 1370 OLOUNDS 60 31 188 1285 107009 80 43 16 1370 OLOUNDS 60 31 188 1285 107009 80 43 20 1370 OLOUNDS 60 31 188 1285 107009 80 43 20 1370 OLOUNDS 113 31 42.7 10 42.7 10 10 10 10 <	4	1194	00000	7.0	31	0.8					
6 1194 080/0969 40 31 98 17 6 6 13 43 8 1370 08/1099 100 31 36 8 1265 10/20/99 13 43 10 1370 08/1099 100 31 27 8 1265 10/20/99 13 43 10 1370 08/1099 60 31 188 1265 10/20/99 80 43 16 1370 08/1099 60 31 188 1265 10/20/99 80 43 16 1370 08/1099 60 31 188 1265 10/20/99 80 43 19 1370 08/1099 60 31 188 167 427 <td>2</td> <td>1401</td> <td>BRIBNION</td> <td>13</td> <td>31</td> <td>2.4</td> <td></td> <td></td> <td></td> <td></td> <td></td>	2	1401	BRIBNION	13	31	2.4					
7 11944 OB/09/99 33 31 6 6 8 1370 OB/10/99 100 31 58 8 1265 107/099 133 43 10 1370 OB/10/99 60 31 27/8 107/099 60 43 16 1370 OB/10/99 60 31 18 8 1265 1107/099 60 43 16 1370 OB/10/99 60 31 18 8 1265 1107/099 60 43 19 1370 OB/10/99 60 31 18 8 168 60 43 20 1370 OB/10/99 60 31 18 8 167 43 20 1370 OB/10/99 60 31 42.7 17 20 1370 OB/10/99 113 31 51.7 17 20 1370 OB/10/99 133 31 51.7 17 20 1370 <td< td=""><td>,</td><td>401</td><td>66/60/80</td><td>40</td><td>ž</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	,	401	66/60/80	40	ž						
1370 08/1099 100 31 56 1265 102099 133 43 130 08/1099 80 31 278 1265 102099 133 43 131 1370 08/1099 60 31 188 1265 102099 80 43 1370 08/1099 60 31 188 1370 08/1099 60 31 188 1370 08/1099 60 31 188 1370 08/1099 60 31 188 1370 08/1099 60 31 188 1370 08/1099 60 31 188 1370 08/1099 133 31 427 1370 08/1099 133 31 427 1370 08/1099 133 31 437 1370 08/1099 133 31 427 1370 08/1099 133 31 437 1370 08/1099 133 31 437 1370 08/1099 133 31 437 1370 08/1099 133 31 437 1370 08/1099 133 31 437 1370 08/1099 133 31 437 1370 08/1099 133 31 138 139 1370 08/1099 133 31 138 139		1194	66/60/80	33	5 3	9.8					
1370 06/10/99 100 31 35 8 1265 10/20/99 133 43 1370 06/10/99 100 31 278 1265 10/20/99 133 31 15 15 15 15 15 15 15 15 15 15 15 15 15	_	1370	08/10/00	3	31	9 9					
9 1370 06/10/99 80 31 278 1205 10/20/99 133 43 15 1370 06/10/99 60 31 188 80 43 17 1370 06/10/99 60 31 188 80 43 18 1134 06/06/99 60 31 188 80 427 20 1370 06/10/99 133 31 517 20 1370 06/10/99 133 31 517 MIN 24 MAX 517 Cocations 11 14 Were Pelocaled to survey resolutions 10 CGL/M 100 CGL/M	8	1370	66/01/00	100	31	36.8	1265				
10 1370 08/10/99 10 31 3.6 1265 102/099 80 43 15 1370 08/10/99 60 31 188 80 43 17 1370 08/10/99 60 31 188 80 43 18 1370 08/10/99 60 31 188 80 43 20 1370 08/10/99 60 31 157 84 80 20 1370 08/10/99 113 31 517 84 84 20 1370 08/10/99 133 31 817 84 <	6	1070	08/10/99	80	31	27.0	607)	10/20/99	133	43	45.1
15 1370 08/10/99 4.0 31 9.8 1265 10/20/99 80 4.3 15 1370 08/10/99 60 31 188 188 188 188 194 1370 08/10/99 60 31 188 194 1370 08/10/99 113 31 15.7 1370 08/10/99 113 31 51.7 1370 08/10/99 113 31 51.7 199 150 155 150 15		13/0	08/10/99	100	3	0 3					
15 1370 08/10/89 60 31 188 40 43 17 1370 08/10/89 60 31 188 60 31 188 60 31 188 60 31 188 60 31 188 60 31 188 60 31 188 60 31 188 60 31 188 60 31 188 60 31 188 60 31 188 60 31 187 60 43 188 60 31 187 188 60 31 188 60 31 187 188 60 31 188 60 31 188 60 31 188 60 31 188 60 31 188 60 31 188 60 31 189 80 113 31 188 60 31 189 60 180 189 60 180 189	9	1370	08/10/99		33	36.8	1265	10/20/89			
16 1370 08/10/99 60 31 17 1370 08/10/99 60 31 18 1194 08/10/99 60 31 19 1370 08/10/99 113 31 20 1370 08/10/99 133 31 MiN MAX 8 MAX 8 SD 1 Cocations 11 14 were relocated to survey unit 77000 1	15	1370	000000	40	31	86			08	43	20 2
17 1370 08/10/99 60 31 18 1184 08/09/99 60 31 19 1370 08/10/99 113 31 20 1370 08/10/99 113 31 Min MAX 8 MAX 8 SD 1 Coatlons 11 14 were relocated to survey unit 77000 1	16	1370	SE/DI IOO	90	31	18.8					
18 1194 08/10/99 60 31 19 1370 08/10/99 113 31 20 1370 08/10/99 133 31 MiN MAX Locations 11 14 were relocated in survey and survey in the surv	17	0101	08/10/89	90	31	48.8					
19		13/0	08/10/99	9	7						
20 1370 06/10/99 113 31 MiN MAX MEAN SD SD SD SD SD SD SD SD SD SD SD SD SD	2	1194	66/60/80	54	5	188					
20 1370 08/10/99 113 31 MIN MAX MEAN SD SD SD SD SD SD SD SD SD SD SD SD SD	19	1370	08/10/00	200	31	15.7					
MIN MAX MEAN SD SD SD SD SD SD SD SD SD SD SD SD SD	20	1370	6600	113	31	42.7					
MIN MAX MAX MEAN SD SD Transuranic DCGL _W			08/10/99	13.3	31	517					
MAX MEAN SD Locations 11 14 were relocated in success and 77000					Min						
MAX MEAN SD Locations 11 14 were relocated to survey tent 77000						24					
MEAN SD Locations 11 14 were relocated to survey that 72000					MAX	517					
Locations 11 14 were relocated in survay and 72000					MEAN	19.9					
Locations 1114 Were refocated in surpass, and 72000					SD	15.5					
		ations 11 14 were relocate	d to suprass seed 77000		ransuranic DCGL _W	100					

Survey Unit 77908 Building 779 Smear Results

Smear Location		Sme	Smear Results		
Number	Serial Number	Date Counted	Gross (com)	/dnm/400 cm²	L
-	1160	8/10/99	0 5	י ווים חסו ייוול א	
2	1160	8/10/00	000	00	95
3	1160	0/10/39	0.0	-15	9 5
4	1160	8/10/8	0.0	-15	95
7	7700	8/10/99	10	15	9.5
	1160	8/10/99	0 0	1.5	0 0
,	0911	8/10/99	0.5	00	300
- 0	1160	8/10/99	0.5	0	200
	1160	8/10/99	00	, ,	0 0
ה	1160	8/10/99	200	61.	
10	1160	8/40/00	000	0.0	9 2
15	1160	0/10/00	00	-15	9 5
16	1160	04010	0.0	-15	9 2
17	4460	8/10/8	00	-15	
10	091.1	8/10/99	0 0	14.5	
0 0	1160	8/10/99	0.0	7	
200	1160	8/10/99	0.5	200	0 0
07	1160	8/10/99	0.0	7	
			MIN	115	C A
			MAX	1.5	
			MEAN	8 0-	
1			SD	60	
TON			Fransuranic DCGLw	20	
_	Locations 11-14 were relocated to survey unit 7700s	elocated to survey	77000		

	TRANSURANIC	DCGL w=100				3 6	0.7				11.2					3.3					0.1				5.2					7 0				3.6	, י
	URANIUM TOTAL	DCGL,w=5000		7 / 2	7 70				25 2					33 3					0.4				396					64.7					110		
le Results	ESTIMATED MDA	(dpm/100cm²)	000	10.0	103	47	52	68	52	3.1	57	7.6	82	44	14.2	848		,	- 00	100	10.9	13.4	13.4	94	12.9	8.7	40	/ 3	8.4	103	, [55	t τ α α	29	
Survey Unit 77908 Building 779 Faint/Solid Media Sample Results	INDIVIDUAL	(dpm/100cm²)	45	17.9	26	00	17.9	-11	83	57	55	7/1	40	0	200		700	0 1	00	00	156	-18	258	52	01	20.00	87	607	73	405	2	7.04	15	2.1	
nt/Solid I	SURFACE	AREA (III-)	?	-	. '		40	I I			An An	-L- }	!_			40		Щ.	1_		9		Ш		9	}			.1.	40	<u>.</u>		L		
, 779 Fall	WEIGHT	53 15	?				43 60				61 10	?		_		0.67	;				60 40				47 73	?				35 10			_		
ulding	MDA (a)(a)	0 150	0 200	0 218	0 225	0 102	0 138	0 182	0000	0 153	0 185	0 156	0 085	0 270	0 092	0 243	0 111	0 204	0 262	0 135	0 210	0 257	0.257	0000	0211	960 0	0 178	0 204	0.251	0 256	0 183	0 154	0 191	960 0	
77908 E	DCila	0 263	660 0	0 391	0 058	0000	04/8	0 222	0 152	0 146	0 328	980 0	0 219	0 062	0000	0 390	0 041	0 195	0 067	0 0 0 0 0	0 301	-0 034	100	200	0 872										
ırvey Unıt 7	NUCLIDE	14		0-738	PU-239/240	11.033/034	11,235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240			0-235		-	4	-	-	-	-	U-233/234	_	-	휭	Am-241	
S	SITE SAMPLE ID	001 002				000 000	200 200				003 002					004 002	-			000	700 000				006 002					007 002		<u></u>			
	SAMPLE LOCATION NUMBER	-				2	1		_		3			-		4				4		-			9		_			7		_		1	
	LOCATION DESCRIPTION	West Wall				West Wall					West Wall	_				west wall		-		West Wall					West Wall					West Wall					

	TRANSURANIC TOTAL (dpm/100cm²	DCGL w=100					5.2					111				77.0	3/ 0				12.6					48 5				12.0
		DCGL w=5000			19.3				74.2	614				0 00	6 66				54 4					134 9				0.40	7 /6	
le Results	ESTIMATED MDA	(dpm/100cm²)	82	6/	29	000	670	8/	70	5.2	40	63	48	5.4	41	21	9.5	17.5	17.5	25 1	315	519	212	212	186	70.0	000	42 1	22.2	340
7908 Building 779 Faint/Solid Media Sample Results	INDIVIDUAL	(dpm/100cm²)	0 0	01-	108	200	786	90	23.3	32	145	29 6	12	69 1	106	26 4	315	-08	23 7	12.4	0.2	412	0	82.6	69	187	2.7	74.8	0.0	12.0
t/Solid	SURFACE	AKEA (III.)	₹				40	- - -	.J	1	۱.,	40	!		1		40	I	<u>1</u>		-	5 Т				04	<u>.</u>		1	
779	(7) In Clark	34 83	3				33 40	2				28 40					181 40		_		0,0	749 20				260 20				
uilding	MDA	0 283	0 263	8000	0 217	0 095	0 336	0 275	0 275	0 199	0 171	0 257	0 195	0 219	0 166	980 0	0 061	0 112	0 112		0 202	0 0 0 0	0000	1000	0 289	0 357	0 188	0 188	660 0	0 152
77908 E	Ş	0318	-0 035	0.362	0 172	0000	0 649	-0 022	0 810	0 110	0 505	1210	0 020	2 830	0 435	1 080	0 202	-0 005	0 152		1000	0 037	0 400	0 032	0 194	0 084	0 017	0 334	0000	0.054
Survey Unit 7	NUCLIDE	U-233/234	U-235	11-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	0-235	U-230 PII-239/240	Am 244	11-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241
รั	SITE SAMPLE ID	008 002					009 002					010 002				047.000	015 002				016 002					017 002				
	SAMPLE LOCATION NUMBER	80					6				,	2				145	<u>.</u>			•	16					17				
	LOCATION DESCRIPTION	West Wall					West Wall				10/00+10/01	ACC ACC				Boof	5				Roof					Roof				

Survey Unit 77908 Building 779 Faint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	bCi/g	MDA (pCu/g)	WEIGHT (g)	SURFACE AREA (m²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) DCGL ==5000	TRANSURANIC TOTAL (dpm/100cm²) DCGL w≈100
West Wall	18	018 002	U-233/234	0 537		39 60	40	183			
			U-235	-0 021	0 192		' —	-07	65		
	· ·		U-238	0 519	0 078		L	17.7	2.7	35.3	
			Pu-239/240		0 159		•	19	54		
			Am-241	0000	0 080		-	00	2.7		1 9
NOTE	Locations 1	Locations 11-14 were relocated to survey unit 77906	ted to survey	unit 7790	90						

21306
unit
to survey
relocated 1
were
11-14
Locations

NIM	0.4	0 1
MAX	134 9	48 5
MEAN	49 4	115
SD	37.8	14.4
DCGL _w =	2000	100

Survey Unit 77908 Building 779 Sample Weight Data Sheet

	RIN NUMBER 9	3ER 99A9009		RIN NUMBER 99A9009	99A9009	SUM (*)
Sample			Sample			
Location		Rad Screening	Location		Isotopic Analysis	Total Weight,
Number	Event	Weight, grams	Number	Event	Weight, grams	grams
-	001 001	N/A	1	001 002	53 15	53 15
2	002 001	N/A	2	002 002	43 60	43 60
3	003 001	N/A	3	003 002	61 10	61 10
4	004 001	N/A	4	004 002	290	290
5	005 001	N/A	5	005 002	60 40	60 40
9	006 001	N/A	9	006 002	47 73	47 73
7	007 001	N/A	7	007 002	35 10	35 10
8	008 001	N/A	80	008 002	34 83	34 83
6	009 001	N/A	6	009 002	33 40	33 40
10	010 001	N/A	10	010 002	28 40	28 40
15	015 001	N/A	15	015 002	181 40	181 40
16	016 001	N/A	16	016 002	249 50	249 50
17	017 001	N/A	17	017 002	260 20	260 20
18	018 001	N/A	18	018 002	39 60	39 60

(*) The total weight of each sample used for the activity calculations is the sum of the weights of each aliquot removed for rad screens and the weights of each sample received for isotopic analysis

ATTACHMENT C Survey Unit 77910 Data Summary

SURVEY UNIT 77910 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGL_{w=}

>75% and <100% of DCGL_{w=}

Greater Than or Equal to DCGL_w=



Survey Unit 77910 Data Summary

Total Surface Activ	Activity Mea	ity Measurements	Remova	ble Activity I	Removable Activity Measurements
	15	21		15	21
	Number Required	Number Obtained		Number Required	Number Required Number Obtained
Z	45	dpm/100 cm ²	Σ	6 0-	dpm/100 cm ²
MAX	65.5	dpm/100 cm ²	MAX	2.1	dpm/100 cm ²
MEAN	14.2	dpm/100 cm ²	MEAN	0.5	dpm/100 cm ²
STD DEV	186	dpm/100 cm ²	STD DEV	60	dpm/100 cm ²
TRANSURANIC			TRANSURANIC		
DCGLw	100	dpm/100 cm ²	DCGLW	20	dpm/100 cm²
		Media Sar	Media Sample Activity		
	Media Samples	15	16		
		Number Required	Number Obtained	·1	
Tota	Total Uraniim Results	<u>¥</u>	•	Total Transuranic Results	c Besults
		2	1		
N N	00	dpm/100 cm ²	Z	0 1	dpm/100 cm ²
MAX	106	dpm/100 cm ²	MAX	0.8	dpm/100 cm ²
MEAN	3.7	dpm/100 cm ²	MEAN	0 3	dpm/100 cm ²
STD DEV	42]dpm/100 cm²	STD DEV	0.2	dpm/100 cm ²
:: 	5000]dom/100 cm ²	::1900	100	dpm/100 cm ²
¾			M D	2	

Survey Unit 77910 Building 779 Total Surface Contamination Results

		Total Surface Activity	tivity Survey							
Meter Model		NE Electra w/ DP6 Probe		Second Leave	O Provide		Guali	Quality Control Survey	Survey	
Instrument #	2358	1194	AN A	Local Area	Local Area Drgd (cpm)	- 1	NE Electra w/ DP6 Probe		Local Area	Local Area Bkgd (cpm)
Cal Due Date	1/19/00	10/22/99	N/A		5.7	1194	Y.V	¥N N	2	2.7
Efficiency (c/d)	0 220	0 221	A/N			10/2/99	N/A	N/A		
		Total Surface	Activity Moss.			0.221	N/A	ΑN		
		SHalland John A Medaulements	Total Medsu	rements			Quality Co	ontrol Mea	Quality Control Measurements	
Number Number	Serial #	Date	(cbm)	MDA (dpm/100 cm²)	(dom/100 cm²)	7	ĺ	,	MDA (dpm/100	
-	2358	08/23/99	40	76		Senal #	Date	(cpm)	cm.)	(dpm/100 cm²)
2	2358	08/23/89	09	3 25	8 94					
3	2358	08/23/99	33	25	A 7.					
4	2358	08/23/99	20	25	1 4					
5	2358	08/23/88	40	8	7.7					
9	2358	08/23/99	33	ੜ	4.5					
7	2358	08/23/99	40	75	7.7					
8	2358	08/23/99	67	8	20.0					
6	2358	08/23/99	167	क्र	65.5	1104	0004800	100		
10	2358	08/23/99	13	35	4.5	5	05/24/99	/3	36	20 8
=	2358	08/23/99	9	8	16.8					
12	2358	08/23/99	6.7	\$	20.0					
13	2358	08/23/99	53	8	13.6					
14	2358	08/23/99	16.7	\$	65.5	1104	0004000	3		
15	2358	08/23/99	13	78	4.5		00124188	0.9	36	14 9
16	1194	08/24/99	4.7	8	10.8			V		
17	1194	08/24/99	4.7	8	10.8					
18	1194	08/24/99	27	*	18					
19	1194	08/24/99	40	35	7.7					
50	1194	08/24/99	40	Ŕ	7.7					
21	1194	08/24/99	67	34	19.9					
				NIM	-45					
				MAX	65.5					
				MEAN	14.2					
				CS	186					
				Transuranic DCGL _w	100					

Survey Unit 77910 Building 779 Smear Results

Smear Location		Sme	Smear Results		
Number	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm ²)	MDA
1	814	8/23/99	0.5	90	8.3
2	814	8/23/99	10	2.1	83
8	814	8/23/99	0.5	90	83
4	814	8/23/99	9.0	90	83
2	814	8/23/99	0.5	9 0	83
9	814	8/23/99	0.5	90	83
7	814	8/23/99	0.5	90	83
80	814	8/23/89	0.5	90	83
တ	814	8/23/99	0.5	90	83
10	814	8/23/89	0.5	90	83
7	814	8/23/99	0.5	9 0	83
12	814	8/23/99	0.0	6 0-	833
13	814	8/23/89	10	2.1	83
14	814	8/23/99	0.5	9 0	83
15	814	8/23/89	0.0	6 0-	83
16	814	8/24/99	10	2.1	6.5
17	814	8/24/99	0.0	6 0-	65
18	814	8/24/99	0.5	9 0	65
61	814	8/24/99	0.5	90	65
20	814	8/24/99	0 0	6 0-	65
7.1	814	8/24/99	0.5	90	65
			MIN	60-	
			MAX	2.1	
			MEAN	0.5	
			SD	60	
			Transuranic DCGL _w	20	

	TRANSURANIC TOTAL (dpm/100cm²)				0 1				0.3			0.2				0 1		
	URANIUM TOTAL (dpm/100cm²)			10.0			0.2				0.5			0.1				
e Results	ESTIMATED MDA (dpm/100cm²)		03	0.2	0 1	0 0	0.0	00	0.1	0 1	000	0 3	000	000	00	0 1		
910 Building 779 Faint/Solid Media Sample Results	INDIVIDUAL NUCLIDE (dpm/100cm²)		50	000	0 0	00	0 1	700	0.1	00	0.0	02	000	0 1	0.1	0.1		
nt/Solid	SURFACE AREA (m²)		04		Q.V	5			40			Q.	5	J				
779 Fall	WEIGHT (9)		9 76		2 34	5	_		0 43		· · ·	0.27	<u> </u>					
guiplir	MDA (PC//g)		0 035	0 025	7000	0 024	0 024	0 031	0 150	0/10	0 019	0 860	0 140	0 140	0 061	0 340		
	pCi/g		0 600	0 560	0 042	0 008	0 064	0 021	0 140	0 360	680 0	0 280	900 0-	0 190	0 199	0.260		
Survey Unit 77	NUCLIDE		U-234 U-235	U-238 Pu-239	U-234	U-235	U-238 Pii-239	Am-241	U-234	U-238	Pu-239	11-24	U-235	U-238	Pu-239	Am-241		
Surv	SITE SAMPLE ID		010 001		011 001	-			012 001			013 001						
	SAMPLE LOCATION NUMBER		6		=				12			13	?					
	LOCATION DESCRIPTION		Door #6 (outside	Room 150)	Door #7	(outside	Room 154)		Door #7	Room 154)		Door #7	(outside	Room 154)				

Survey Unit 77910 Building 779 Paint/Solid Media Sample Results

TRANSURANIC TOTAL (dpm/100cm²)	DCGL _W =100					8.0									9	7 0				+					,	0.3				
URANIUM TOTAL (dpm/100cm²)	DCGL w=5000		6.1						0.3				88					00	0.0				6.9					10.6	9.01	
ESTIMATED MDA	(apm/100cm)	000	0 1	00	700		,	,				A O	00	00	700	- 00	200	700	00	0.1	03	03	02	0.2	0.1	0.0	0.0	0.1	0.0	100
INDIVIDUAL NUCLIDE	2.8	0.2	31	0.2	90	00	100	00	01	00	5.1	0.2	35	0.0	0 1	42	0.3	34	00	01	3.2	0.2	35	0.1	0.2	57	0.2	47	01	0 1
SURFACE	40					40	!	-			40	!				40		<u>.</u>			40	<u> </u>	_	L		40	_			<u>. </u>
WEIGHT (a)	6 36					2 35					11 64					60 9	_				7 49					8 55				
MDA (pCi/d)	0 032	0 035	0 025	0 032	0 013	0 045	0 041	0 030	0 040	0 015	0 039	0 035	0 024	0 023	0 007	0 042	0 030	0 027	0 037	0 018	0 043	0 045	0 036	0 024	0 016	0 033	0 025	0 015	0 033	0 0 0 0 0
DCI/a	0510	0 030	0 570	0 033	0 112	0 082	0 004	0 048	0 025	0 013	0 510	0 018	0 349	0 015	0 007	0 810	990 0	0 650	0 007	0 021	0 200	0 027	0 220	0 016	0 025	0 2 2 0	0 028	0 640	0 0 0 0 0	0 012
NUCLIDE	U-234	U-235	U-238	Pu-239	Am-241	U-234	U-235	U-238	Pu-239	Am-241	U-234	U-235	U-238	Pu-239	Am-241	U-234	U-235	U-238	Pu-239	Am-241	U-234	U-235	U-238	Pu-239	Am-241	U-234	U-235	U-238	Pu-239	Am-241
SITE SAMPLE ID	015 001					016 001					017 001					018 001					019 001					020 001				
SAMPLE LOCATION NUMBER	15					16					17					18		_			19	_	_	_		20			,	
LOCATION DESCRIPTION	Door #7	(ontside	Room 154)			Door #8	ontside	Room 160)			Door #8	(outside	Room 160)			Door #8	ontside	Room 160)		3		(outside	Koom 160)		1	Door #7	(outside	Room 154)		

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Z Z	0 0	0.1
MAX	10 6	8 0
MEAN	3.7	0.3
SD	4.2	0.2
DCGL _w =	5000	100

Attachment C Page 7 of 7

ATTACHMENT D Survey Unit 77919 Data Summary

SURVEY UNIT 77919 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGL_w=

>75% and <100% of DCGL_{w=}

Greater Than or Equal to DCGL_w₌



Survey Unit 77919 Data Summary

Total Surface Activity Measurements	Activity Mea	surements	Remova	able Activity	Removable Activity Measurements	
	4	15		ļ		
	2	2		2	15	
	Number Required Number Obtained	Number Obtained		Number Required	Number Required Number Obtained	
Z	6.0	dpm/100 cm ⁺	Z	-03	dpm/100 cm²	
MAX	29 1	dpm/100 cm ²	MAX	2.7	dpm/100 cm ²	
MEAN	12.3	dpm/100 cm ²	MEAN	0 3	dpm/100 cm ²	-
STD DEV	9.1	dpm/100 cm ²	STD DEV	10	dpm/100 cm ²	
TRANSURANIC DCGL _W	100	dpm/100 cm ²	TRANSURANIC DCGLw	20	dpm/100 cm ²	
		Media Sa	Media Sample Activity			
	Media Samples	N/A	N/A			
	_	Number Required	Number Obtained			
Total	Total Uranium Results	<u>\$</u>	•	Total Transitranio Dosiilka	0 Dogul to	
		<u>!</u>	•	oral Hallsonal	ic ivesuits	
N	N/A	dpm/100 cm ²	NIM	N/A	dpm/100 cm ²	
MAX	N/A	dpm/100 cm ²	MAX	N/A	dpm/100 cm ²	
MEAN	N/A	dpm/100 cm ²	MEAN	N/A	dpm/100 cm ²	
STD DEV	N/A	dpm/100 cm ²	STD DEV	N/A	dpm/100 cm ²	
DCGL _w	N/A	dpm/100 cm ²	DCGLw	N/A	dpm/100 cm ²	

Survey Unit 77919 Building 779 Total Surface Contamination Results

		Total Surface Activity	vity Survey				Quality	Quality Control Survey	Survey	
Meter Model		NE Electra w/ DP6 Probe		Local Area	Local Area Bkgd (cpm)	NE EI	NE Electra w/ DP6 Probe		Local Area	Local Area Bkgd (cpm)
Instrument #	1265	N/A	N/A	2	25	2358	N/A	N/A	4	40
Cal Due Date	3/2/00	NA	N/A			1/19/00	N/A	NA		
Efficiency (c/d)	0 213	N/A	N/A			0 214	N/A	N/A		
		Total Surface Activ	ctivity Measurements	rements			Quality Control Measurements	ntrol Mea	surements	
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(шфо)	MDA (dpm/100 cm²)	(dpm/100 cm²)
-	1265	10/26/99	40	37	7.1					
2	1265	10/26/99	2.7	37	6.0					
8	1265	10/26/99	4.0	37	7.1					
4	1265	10/26/99	53	37	13.2					
2	1265	10/26/99	2.7	37	6.0					
9	1265	10/26/99	67	37	19.7					
7	1265	10/26/99	53	37	13.2					
8	1265	10/26/99	73	37	22 6	2358	10/26/99	53	4	6 1
6	1265	10/26/99	33	37	3.8					
10	1265	10/26/99	40	37	7.1					
11	1265	10/26/99	7.3	37	22 6					
12	1265	10/26/99	67	37	19.7					
13	1265	10/26/99	2.7	37	6.0					
14	1265	10/26/99	09	37	16.5					
15	1265	10/26/99	8.7	37	29 1	2358	10/26/99	53	44	6.1
				NIM	60					
				MAX	29 1					
				MEAN	12.3					
				SD	91					
				Transuranic DCGL _W	100					

Survey Unit 77919 Building 779 Smear Results

Serial Number Date Counted Gross (cpm) (dpm/100 cm²) 814 10/26/99 0.5 1.2 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10	Smear Location		Sme	Smear Results		
814 10/26/99 0.5 1.2 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 81 10 0.0 -0.3 81 10 0.0 -0.3 <	Number	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm ²)	MDA
1407 10/26/99 0.0 -0.3 814 10/26/99 0.5 1.2 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 MAX 2.7 SD 1.0 SD 1.0 Ton 1.0 SD 1.0 Transuranic DCGL _W 20 Transuranic DCGL _W 20	1	814	10/26/99	0.5	12	65
814 10/26/99 0.5 1.2 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 81 10 0.0 0.0	2	1407	10/26/99	0.0	-03	65
1407 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 MAX 2 7 SD 1 0 SD 1 0 Transuranic DCGL _W 20 Transuranic DCGL _W 20	3	814	10/26/99	0.5	12	65
814 10/26/99 00 -0.3 1407 10/26/99 00 -0.3 814 10/26/99 00 -0.3 1407 10/26/99 00 -0.3 1407 10/26/99 00 -0.3 1407 10/26/99 00 -0.3 1407 10/26/99 00 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 MAX 2.7 SD 10 SD 10 Transuranic DCGLw 20 Transuranic DCGLw 20	4	1407	10/26/99	0.0	-03	65
1407 10/26/99 00 -0.3 814 10/26/99 00 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 1407 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 MAX 2.7 MAX 2.7 SD 10 -0.3 SD 10 -0.3 Transuranic DCGL _W 20	5	814	10/26/99	0 0	-0 3	65
814 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 MAX 2 7 SD 10 SD 10 Transuranic DCGL _W 20	9	1407	10/26/99	0.0	-03	65
1407 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 MAX 27 MAX 27 SD 10 SD 10 SD 10 Transuranic DCGL _W 20	7	814	10/26/99	00	-03	65
814 10/26/99 0.0 -0.3 1407 10/26/99 0.5 1.2 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 1407 10/26/99 0.5 1.2 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 814 10/26/99 0.0 -0.3 MAX 2.7 SD 10 SD 10 Transuranic DCGL _W 20	8	1407	10/26/99	00	-03	65
1407 10/26/99 0 5 12 814 10/26/99 0 0 -0 3 1407 10/26/99 0 0 -0 3 1407 10/26/99 0 5 1 2 814 10/26/99 0 0 -0 3 814 10/26/99 MIN -0 3 MAX 2 7 SD 10 SD 10 Transuranic DCGL _W 20	6	814	10/26/99	0.0	-03	65
814 10/26/99 00 -0 3 1407 10/26/99 00 -0 3 814 10/26/99 0 5 1 2 1407 10/26/99 0 0 -0 3 814 10/26/99 MIN -0 3 MAX 2 7 MAX 2 7 SD 10 SD 10 Transuranic DCGL _W 20	10	1407	10/26/99	0.5	12	65
1407 10/26/99 0 0 -0 3 814 10/26/99 0 5 1 2 1407 10/26/99 0 0 -0 3 814 10/26/99 0 0 -0 3 MAX 2 7 MAX 2 7 MEAN 0 3 SD 1 0 Transuranic DCGL _W 20	11	814	10/26/99	0.0	-03	65
814 10/26/99 10 27 1407 10/26/99 0 5 12 814 10/26/99 0 0 -0 3 MAX 2 7 MEAN 0 3 SD 10 Transuranic DCGLw 20	12	1407	10/26/99	0 0	-03	65
1407 10/26/99 0.5 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	13	814	10/26/99	10	2.7	65
## 10/26/99	14	1407	10/26/99	0.5	1.2	65
	15	814	10/26/99	0.0	-03	65
				NIM	-03	
				MAX	2.7	
				MEAN	0.3	
				SD	10	
				Transuranic DCGL _w	20	

ATTACHMENT E Survey Unit 77921 Data Summary

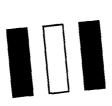
SURVEY UNIT 77921 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGLw=

>75% and <100% of DCGLw=

Greater Than or Equal to DCGLw=



Survey Unit 77921 Data Summary

Total Surface Activity Measurements	Activity Mea	surements	Remova	able Activity	Removable Activity Measurements	S
	17	29		12		
				=	67	
	Number Required Number Obtained	Number Obtained		Number Required	Number Required Number Obtained	
-		•				
Z	4.5	dpm/100 cm ²	Z	0	dpm/100 cm ²	
MAX	63.2	dpm/100 cm ²	MAX	ဖ	dpm/100 cm ²	
MEAN	17.0	dpm/100 cm ²	MEAN	+	dpm/100 cm ²	
STD DEV	15.4	dpm/100 cm ²	STD DEV	2	dpm/100 cm ²	
TRANSLIBANIC					_	-
DCGLW	100	dpm/100 cm ²	I KANSUKANIC DCGLw	20	dpm/100 cm ²	
		Media Sar	Media Sample Activity	. 1		
	Media Samples	17	17	Γ-		
		Number Required	Number Obtained	г		
Total	Total Uranium Results	\$]		Total Transuranic Results	c Results	
Z Z	0.2	dpm/100 cm ²	Z	02	dpm/100 cm ²	
MAX	40 8	dpm/100 cm ²	MAX	193	dpm/100 cm ²	==
MEAN	17.0	dpm/100 cm ²	MEAN	5.7	dpm/100 cm ²	
STD DEV	12.1	dpm/100 cm ²	STD DEV	59	dpm/100 cm ²	
					•	
DCGLw [2000	dpm/100 cm ²	DCGL _w	100	dpm/100 cm ²	

Survey Unit 77921 Building 779 Total Surface Contamination Results

		NE Electra w/ DP6 Probe					Quain	Quality Control Survey	Survey	
Instrument #	2349	1194	2358	Local An	Local Area Bkgd (cpm)	NE	NE Electra w/ DP6 Probe	9		
Cal Due Date	12/24/99	10/22/99	1/1000		3.0	1370	N/A	N/A	Local Area	Lucal Area Bkgd (cpm)
Efficiency (c/d)	0 224	0 221	0.220			10/8/99	N/A	W.W.		,
		Total Surface Activity Measurements	Activity Measi	remente		0.222	N/A	NA		
Sample Location	4			3			Quality Co	Quality Control Measurements	surements	
1	2349	Date	(сьш)	MDA (dpm/166 cm²)	(dpm/100 cm²)	Serial #	Date	1	MDA (dpm/100	
2	1194	00/10/00	20	37	4.5			(III)	cm.)	(dpm/100 cm²)
3	2349	06/1750	40	38	45					
4	1104	08/17/89	120	37	40.2	0721				
52	100	08/16/99	67	88	16.7	Over	08/18/99	8.7	36	27.1
ď	4011	08/16/99	47	38	7.7					
,	2349	08/17/99	12.7	37	13.4					
	2349	08/17/89	120	37	4 54	1370	08/18/99	12.7	88	45.1
0	2349	08/17/99	53	37	40.2					
3	1194	08/16/99	7.3	86	10.3					
2	2349	08/17/99	8.7	3 6	19.4					
=	2349	08/17/99		3/	25 5					
12	2349	08/17/99	2	3/	13					
13	2349	08/17/99		3/	13.4					
41	1194	08/16/99	60	37	19.2					
15	1194	08/16/99	00	38	22 6					
16	1194	08/16/99	20	88	4.5					
17	2349	08/17/80	70	38	4.5					
18	1194	08/1800	6.7	37	16.5					
19	1194	000000	17.0	38	63.2					
20	1194	00/10/00	80	38	22 6					
21	1194	00/10/99	60	88	13.6					
22	2358	0001000	73	38	19.4					
23	2358	0001000	63	38	15.0					
24	2358	0001000	53	38	10.5					
25	2358	08/1900	27	38	1.4					
26	2358	08/1000	87	38	25.9					
27	2358	00/10/88	53	38	10.5					
28	2358	989100	0.9	38	13.6					
29	2258	08/18/99	53	38	10.5					
	0007	08/18/99	80	38	22.7					
				WIN	45					
				MAX	63.2					
				MEAN	17.0					
				SD	154					
					ALL STREET					

Survey Unit 77921 Building 779 Smear Results

Smear Location		Sme	Smear Results		
Number	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm ²)	MDA
1	1160	8/18/99	0	0	7
2	1160	8/18/99	0	0	7
3	1160	8/18/99	0	0	7
4	1160	8/18/99	0	0	7
5	1160	8/18/99	1	3	7
9	1160	8/18/99	0	0	7
7	1160	8/18/99	0	0	7
8	1160	8/18/99	0	0	7
6	1160	8/18/99	0	0	7
10	1160	8/18/99	0	0	7
11	1160	8/18/99		3	7
12	1160	8/18/99	0	0	7
13	1160	8/18/99		3	7
14	1160	8/18/99	0	0	
15	1160	8/18/99	0	0	7
16	1160	8/18/99	0	0	7
17	1160	8/18/99	0	0	7
18	1160	8/18/99	2	9	7
19	1160	8/18/99	-	င	
20	1160	8/18/99	0	0	7
21	1160	8/18/99	-	3	
22	1160	8/18/99		-	2
23	1160	8/18/99	0	0	
24	1160	8/18/99	1	1	7
25	1160	8/18/99	0	0	7
26	1160	8/18/99	0	0	7
27	1160	8/18/99	1	1	7
28	1160	8/18/99	0	0	7
29	1160	8/18/99	0	0	7
			MIN	0	
			MAX	9	
			MEAN	1	
			SD	2	
			Transuranic DCGL _w	20	

	TRANSURANIC TOTAL (dpm/100cm²)	DCGC W = 100				3.8					2.7					0.2					19					11					9.4					12.9
esults	URANIUM TOTAL (dpm/100cm²)	ECGE W -3000		5.7					7.3					93					11.2					40 8					23 6					15.0		
Building 779 Paint/Solid Media Sample Results	ESTIMATED MDA	16	13	0.7	18	0 8	0.7	2.1	0.7	11	19	4 1	3.1	17	3.5	3.1	63	2.9	2.9	7.6	31	7.1	2.7	58	92	0.9	26	35	26	56	16	2.8	10	2.5	22	18
d Media	INDIVIDUAL NUCLIDE (dom/100cm ²)	28	0.5	2.4	10	2.7	2.7	-03	4 9	12	14	26	0.5	62	03	-0 1	5.9	0 0	53	0.8	12	216	0 0	19.2	14	-03	88	-0 4	15.1	6.4	3.0	88	0.4	5.8	8 1	4 8
nt/Soli	SURFACE AREA (in²)	40					40					40					40					40					40					40				
9 Pai	WEIGHT	9 22					11 31					26 07					34 58					38 19					19 58					11 58				
77 gu	MDA (pCi/g)	0 200	0 168	0 091	0 222	0 104	9200	0 220	0.076	0 114	0 196	0 183	0 137	0 075	0 158	0 138	0 211	0 097	0 097	0 255	0 105	0 217	0 081	0 177	0 281	0 183	0 156	0 208	0 156	0 335	960 0	0 278	0 104	0 255	0.216	0 183
uildi	DC/(d	۳			0		0 281		0 506	0 126	0 149	0 118	0 021	0 275	0 014	-0 007	0 197	0000	0 178	0 026	0 039	0 658								0 380					0 818	
_	NUCLIDE	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241
Survey Unit 7792	SITE SAMPLE ID	l					002 001					003 001					004 001					005 001					006 001					007 001				
Su	SAMPLE LOCATION NUMBER	-					7					က					4					2					ဖ					_				
	LOCATION DESCRIPTION	Room Under	Stairway,	Ceiling)		Rooms 146,	147, 148 and	151, Wall 9			Room 145,	Wall 4				Room 145,	Wali 4				Rooms 146,	147, 148, and	151, Wall 8			Rooms 146,	147, 148 and	151, Floor			Rooms 146,	147, 148 and	151, Floor		

Survey Unit 77921 Building 779 Paint/Solid Media Sample Results

7 0		35	84	189	0.2		
23 1 33 3 6 4	9 6 6 1 6 2 3 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 1 1 1 2 2 2	0 4 0 4 0 4 0 0 4 0 0 0 0 0 0 0 0 0 0 0	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	32 32 32 46 46	65 35 39 21
4 8 -0 1 2 3 12 1 7 2	8 4 1 3 3 3 3 3 3 3 3 5 0 0 0 0 0 0 0 0 0 0 0	20 0 -0 2 16 8 4 8	4 8 8 8 9 0 9 0 9 0 9 1 1 1 1 1 1 1 1 1 1 1 1 1	91 -07 105 05	000000000000000000000000000000000000000	62 14 68 30	106 103 103 06
40	40	40	40	40	40	04	40
18 96	34 21	25 65	8 13	32 08	2 94	25 55	29 82
0 191 0 143 0 078 0 204 0 100	0 320 0 124 0 206 0 215	0 259 0 186 0 061 0 073	0 207 0 226 0 207 0 175	0 178 0 194 0 178 0 214 0 158	0 237 0 142 0 065 0 235 0 077	0 204 0 146 0 211 0 183	0 252 0 137 0 163 0 151 0 084
	0 278 0 044 0 163 0 118	0 906 -0 010 0 762 0 217 0 433	0 693 0 126 0 382 0 027 0 155	0 328 -0 026 0 382 0 019 0 056	-0 010 -0 012 0 120 0 187 0 057	0 284 0 062 0 308 0 136 -0 009	0 415 0 049 0 023 0 000
U-233/234 U-235 U-238 Pu-239/240 Am-241	U-233/234 U-235 U-238 Pu-239/240 Am-241	U-233/234 U-235 U-238 Pu-239/240 Am-241	U-233/234 U-235 U-238 Pu-239/240 Am-241	U-233/234 U-235 U-238 Pu-239/240 Am-241	U-233/234 U-235 U-238 Pu-239/240 Am-241	U-233/234 U-235 U-238 Pu-239/240 Am-241	U-233/234 U-235 U-238 Pu-239/240 Am-241
008 001	009 001	010 001	011 001	012 001	013 001	014 001	015 001
8	6	10	-	12	13	14	15
Room 145, Wall 2	Room 145, Wall 2	Rooms 146, 147, 148, and 151, Ramp	Rooms 146, 147, 148, and 151, Wall 4	Rooms 146, 147, 148, and 151, Wall 1	Rooms 146, 147, 148, and 151, Door 5	Rooms 146, 147, 148, and 151, Wall 2	Rooms 146, 147, 148, and 151, Wall 2

Survey Unit 77921 Building 779 Paint/Solid Media Sample Results

	8	398		11.5			138	3	9.3
83	83	83	8 0	49	59	20	45	4 8	22
17.9	60-	22 9	7.5	4 0	5 9	80	7.2	4 4	4 9
40					40				
41 57					28 32				i
0 233	0 233	0 233	0 224	0 188	0 241	0 084	0 183	0 196	0 091
009 0	-0 025	669 0	0 211				0 294	I	0 201
U-233/234	U-235	U-238	Pu-239/240					으	Am-241
016 001					017 001				
16					17				
Rooms 146,	147, 148, and	151, Wall 3			Landing to	Hallway, Floor			

ZZ	0.2	0.2
MAX	40 8	19.3
MEAN	17.0	2.5
SD	12.1	5.9
DCGL _W =	5000	100

ATTACHMENT F Survey Unit 77922 Data Summary

SURVEY UNIT 77922 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGL_w=

>75% and <100% of DCGL_{W=}

Greater Than or Equal to DCGL_{w=}

Survey Unit 77922 Data Summary

Total Surface Activity Measurements	Activity Mea	surements	Remova	ble Activity	Removable Activity Measurements	
	24	24		24	24	
	Number Required	Number Required Number Obtained		Number Required	Number Obtained	
Z	0.3	dpm/100 cm ²	2	0	400 52	
MAX	42.2	dpm/100 cm ²	NW XVW	9 6	apm/100 cm	_
MEAN	118	dpm/100 cm ²	MEAN	66	dpm/100 cm ²	
STD DEV	103	dpm/100 cm ²	STD DEV	12	dpm/100 cm ²	
TRANSURANIC DCGL _W	100	dpm/100 cm²	TRANSURANIC DCGL _W	20	dpm/100 cm²	
		Media Sar	Media Sample Activity			
	Media Samples	24	24	_		
		Number Required	Number Obtained	 1		
Total	Total Uranium Results	t]	FI	Total Transuranic Results	c Results	
NIM	2.0	dpm/100 cm ²	N	-0.1	dpm/100 cm ²	
MAX	57.9	dpm/100 cm ²	MAX		dpm/100 cm ²	
MEAN	15.7	dpm/100 cm ²	MEAN	5.3	dpm/100 cm ²	
STD DEV	18.5	dpm/100 cm²	STD DEV	6.4	dpm/100 cm ²	
DCGLw	2000	dpm/100 cm²	DCGLw	100	dpm/100 cm ²	=====

Survey Unit 77922 Building 779 Total Surface Contamination Results

		Total Surface Activity	ivity Survey				4			
Meter Model		NE Electra w/ DP6 Probe		Local Area	Local Area Rived (rom)	i i	Kualit	Cuality Control Survey	Survey	
Instrument #	1370	NA	N/A	0	DANG (cpin)	- 1	NE Electra w/ DP6 Probe		Local Area	Local Area Bkgd (cpm)
Cal Due Date	10/8/99	N/A	N/A		2	2000	Y A	¥ Z	4	4.0
Efficiency (c/d)	0 222	N/A	N/A			0.213	N/A	¥ ×		
		Total Surface Activity Measurements	Activity Measu	rements			Quality Co	ontrol Mea	Quality Control Measurements	
Sample Location Number	Serial #	Date	(com)	MDA (dpm/100 cm²)	(dnm/100 cm²)	3 1			MDA (dpm/100	
7-	1370	08/19/99	40	36	6.2	Senal #	Date	(cbm)	cuu.)	(dpm/100 cm²)
2	1370	08/19/99	33	38	30					
3	1370	08/19/99	47	38	5 6					
4	1370	08/19/99	09	36	15.2					
5	1370	08/19/99	33	38	3.0					
9	1370	08/19/99	4.7	36	66					
7	1370	08/19/99	6.7	98	183					
80	1370	08/19/99	33	36	3.0					
6	1370	08/19/99	107	36	36.4	1265	100000		;	
10	1370	08/19/99	4.7	98	93	207	BEIDZIDI	6	4	22.1
1	1370	08/18/99	33	36	3.0					
12	1370	08/19/99	0.9	98	15.2					
13	1370	08/19/99	47	36	93					
14	1370	08/19/99	33	36	3.0					
15	1370	08/19/88	60	36	15.2					
16	1370	08/19/99	7.3	98	210					
17	1370	08/19/39	40	36	6.2					
18	1370	08/19/99	40	36	6.2					
19	1370	08/19/99	120	36	42.2	1265	10/20/99	10.7	**	21.5
20	1370	08/19/99	2.7	36	0.3				ii.	616
21	1370	08/19/99	53	36	12.0					
22	1370	08/19/99	40	36	6.2					
23	1370	08/18/99	7.3	36	210					
24	1370	08/19/99	4.7	36	9.3					
				WIN	0					
				MAX	42.2					
				MEAN	118					
				SD	103					
				I ransuranic DCGL _w	100					

Survey Unit 77922 Building 779 Smear Results

Smear Location		Sme	Smear Results		
Number	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm ²)	MDA
1	814	8/19/99	0.0	9 0-	7.5
2	814	8/19/99	00	9 0-	7.5
3	814	8/19/99	00	9 0-	7.5
4	814	8/19/99	0.5	6.0	7.5
5	814	8/19/99	00	9 0-	7.5
9	814	8/19/99	0.5	6.0	7.5
	814	66/61/8	10	2.4	7.5
8	814	8/19/99	0.5	6.0	7.5
6	814	8/19/99	0.0	9 0-	7.5
10	814	8/19/99	00	9 0-	7.5
11	814	8/19/99	00	9 0-	7.5
12	814	8/19/99	15	3.9	7.5
13	814	8/19/89	00	9 0-	7.5
14	814	8/19/99	00	9 0-	7.5
15	814	8/19/99	0.5	6.0	7.5
16	814	8/19/88	00	9 0-	7.5
17	814	8/19/99	00	9 0-	7.5
18	814	8/19/99	0.5	6 0	7.5
19	814	8/19/99	00	9 0-	7.5
20	814	8/19/99	0 0	9 0-	7.5
21	814	8/19/88	0 0	9 0-	7.5
	814	8/19/99	0 0	9 0-	9 /
23	814	8/19/99	00	9 0-	9 2
24	814	8/19/99	0.0	9 0-	9 /
			NIM	90-	
			MAX	3.9	
			MEAN	0 0	
			SD	12	
			Transuranic DCGL _w	۸ 20	

	TRANSURANIC TOTAL (dpm/100cm²)	DCGL W=100				0.2					16					13					3.3					12.9					4 1				16.9
	URANIUM TOTAL (dpm/100cm²)	DCGC#_2000		5.5					4 9					7.4					2.0					2.0					3.1					- 2-	
le Results	ESTIMATED MDA	0.5	90	80	90	90	0.8	90	90	90	90	03	0.4	0.5	0.7	0.4	0 1	01	00	0 1	0.1	90	0.4	0.5	0.5	0.5	03	0.4	500	ဌဂ	0 2	0.5	90	12	0.7
77922 Building 779 Paınt/Solıd Medıa Sample Results	INDIVIDUAL NUCLIDE (dom/100cm ²)	21	0.2	3.2	00	0.2	14	00	35	60	0.7	3.4	0 0	3.9	90	0.7	10	00	10	0 4	3.0	0.5	0 0	16	118	12	2	03	0	0 0	35	0 1	90	141	28
nt/Solid I	SURFACE AREA (in²)	40	·		4		40	<u> </u>	.			40					40		L			40			L	Q.	}	— <u>.l.</u>	J.	l .	Ç	5		1	I
779 Paı	WEIGHT (9)	14 07				-	14 90					9 64		•			1 63					10 54				11 50	3				17 00	80 -			
ilding 7	MDA (pCi/g)	0 039	0 048	690 0	0 052	0 0 0 0 0	0 061	0 043	0 061	0 020	0 047	0 036	0 045	0 064	0 089	0 048	0 072	0 042	0 034	0.047	0 047	0 068	0 040	0 057	0 056	0 038		0.043	0053	2000	0000	0000	0.037	0.079	0 045
922 Bu	bCi/g			0 266	0000	0 018	0110	0000	0 274	0 073	0 052	0 414	0000	0 473	0 067	680 0	0 688	0 031	0 695	0.260	2 120	0 050	000	0 174	1 300	0 128	250	0 032						1	0 182
Survey Unit 779	NUCLIDE	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	PU-239/240	Am-241	U-233/234	U-235	U-238	PU-239/240	11-233/234	11 225	0-233	Pu-239/240	Am 244	147-1117	11 225	U-238	Pu-239/240	Am-241
Surv	SITE SAMPLE ID	001 001					002 001					003 001					004 001					005 001				008 001	-				007 004				
	SAMPLE LOCATION NUMBER	1					2				,	3					4					2				ď)				7	•			
	LOCATION DESCRIPTION	Ceiling					Ceiling					Celling					Celling					Celling				Ceiling	6				Floor	<u> </u>			Γ

	TRANSURANIC TOTAL (dpm/100cm²)	A TOO				6 6				19					0 3					0 5					0 3				12.3	MILLO				7.8
	URANIUM TOTAL (dpm/100cm²)	A TOO		9.1				46 6					6 5					4 8					99				543	S #S				40 0		
le Results	ESTIMATED MDA (dpm/100cm²)	0 8	0.5	0.4	0.5	0.5	20	20	17	18	60	90	0.5	0.7	2.5	0.4	0.5	0.7	0.5	10	11	0.7	11	0 8	07	7	2 4	29	14	2.1	12	10	13	13
922 Building 779 Paint/Solid Media Sample Results	INDIVIDUAL NUCLIDE (dpm/100cm²)	46	0.2	43	63	36	23.9	22.1	90	13	3.0	0 0	35	0.3	0 0	28	0.7	13	0.2	03	2.2	90	39	00	03	2 77	31.5	123	00	140	14	24 5	35	43
nt/Solid I	SURFACE AREA (m²)	9	•		L		40	.1	1		40		<u> </u>			40	البسب				40	<u></u>	-	<u>!</u>	0,0	}		.I	. .	40				
779 Pall	WEIGHT (g)	13 32					41 59	-			16 39					11 94					20 20			-	00 07	2				32 57				
llding .	MDA (pCi/g)	690 0	0 041	0 033	0 045	0 041	0 057	0 056	0 047	0 0 0 0 0	0 062	0 044	0 035	1000	0 179	0 036	0 045	0 064	0.051	0 101	0 062	0 043	0 062	0.048	0 043	0 042	0 060	0 083	0 041	0 074	0 044	0 035	0.048	0.047
922 Bu	bCNg	0 403	0 015	0 375	0 548	0 318	0 669	0 619	0 017	0 037	0 216	0000	0 246	8100	0000	0 269	990 0	0 128	0 019	0 034	0 124	0 032	0.226	0000	0 0 10	0.016	0 914	0 358	0000	0 501	0 049	0.876	0 124	
Survey Unit 77	NUCLIDE	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234 U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	ru-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	FU-239/240	HI-233/234	11-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	ru-239/240	AIII-24 I
Surv	SITE SAMPLE ID	008 001					009 001				010 001					011 001					012 001				013 001					014 001				1
	SAMPLE LOCATION NUMBER	8					6				6					11					12				13)				4				
	LOCATION	Floor					Floor				Wall 3					Celling				-	Celling				Floor	; ;				Floor				

	TRANSURANIC TOTAL (dpm/100cm²)	DCGL w=100					0 0					6 8					11					8 1					25 5					3.5					ص م
	URANIUM TOTAL (dpm/100cm²)	DCGL w=5000			33					53					9.5					57 9					18 6					49.9					7.1		
le Results	ESTIMATED MDA	(dpm/100cm ²)	11	90	0.5	0.7	0.8	90	80	90	10	11	0.5	0 7	11	14	80	25	15	12	17	16	16	11	16	16	12	23	16	13	16	31	4 0	60	12	12	つ つ
922 Building 779 Paint/Solid Media Sample Results	INDIVIDUAL	(dpm/100cm ²)	16	00	17	00	00	2.9	00	24	85	0.4	99	00	28	0.2	60	17.8	16	38 5	69	12	80	00	106	7.8	17.7	22.2	90	27 1	12	23	39	0 0	3.2	0 4	2 7
nt/Solid I	SURFACE	AREA (m²)	6	-		<u> </u>		40		<u>. </u>		I	40		<u> </u>	<u> </u>	•	40		I			40		1		!	40					40				
779 Pall	WEIGHT	(B)	16 74					24 15					17 85					40 32					33 01					42 83					25 42				
liding 7	MDA	(bCı/g)	0 076	0 045	0 036	0 049	0 057	0 031	0 039	0 031	0 048	0 053	0 035	0 044	0 074	0 093	0 052	0 071	0 042	0 034	0 049	0 046	0 057	0 040	0 057	0 057	0 043	0 063	0 044	0 036	0 044	0 083	0 032	0 039	0 056	0.055	- - - - -
322 Bu		pCi/g	0 110	0 000	0 120	0000	0000	0 139					0 432	0000	0 185	0 012	0 057	0 514	0 046	1 110	0 200	0 034	0 281	000 0	0 375	0 274	0 624	0 602	0.016	0 736	0 033	0 062	0 177	0000	0 148	0 020	- - >
Survey Unit 779		NUCLIDE	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	N-238	Pu-239/240	Am-241	U-233/234	U-235	0-238	Pu-239/240	Am-241	U-233/234	1-235 1-235	0-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	
Surv		SITE SAMPLE ID	015 001					016 001					017 001					018 001				i	019 001					020 001					021 001				
:	SAMPLE	NUMBER	15					16					17					18					19					20					21				_
	LOCATION	DESCRIPTION	Wall 3					Ceiling					Ceiling					Floor					Floor					Floor					Wall 3				

Survey Unit 77922 Building 779 Paint/Solid Media Sample Results

											_		_		
TRANSURANIC TOTAL (dpm/100cm²) DCGL w=100					14					-0 1					2.9
URANIUM TOTAL (dpm/100cm²) DCGL w=5000			2.9					4 0					12.1		
ESTIMATED MDA (dpm/100cm²)	80	0.5	90	90	30	0.5	90	80	90	3.7	60	1-1	16	11	49
INDIVIDUAL NUCLIDE (dpm/100cm²)	19	00	11	00	14	2.0	0.2	18	11	-12	5.7	80	55	2.7	0.2
SURFACE AREA (in²)	40	ı			<u> </u>	40	<u>L</u>	l	1		40	<u> </u>	<u> </u>		L
WEIGHT (9)	14 47					10 89					29 20				
MDA (pCi/g)	0 062	0 043	0 062		0 242	0 037		900	0 048	0 295	0 036	0.045	0 064	0 042	0 194
bCi/g	\vdash	000 0	0 085	\blacksquare	0 111	0 163	0 017	0 143		860 0-	0 227	0 033	0 220	0 108	0 00 1
NUCLIDE	U-233/234		U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241
SITE SAMPLE ID	022 001					023 001					024 001				
SAMPLE LOCATION NUMBER	_ 22					23					24				
LOCATION DESCRIPTION	Ceiling					Ceiling					Ceiling				

Z	2.0	1 0-
MAX	57.9	25 5
MEAN	15.7	53
SD	18.5	6.4
DCGLw=	5000	100

ATTACHMENT G Survey Unit 77923 Data Summary

SURVEY UNIT 77923 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGL_{w=}

>75% and <100% of DCGL_w=

Greater Than or Equal to DCGLw =



Survey Unit 77923 Data Summary

Total Surface Activity Measurements	Activity Mea	surements	Remova	ble Activity	Removable Activity Measurements
	15 Number Required	16 Number Obtained		15 Number Required	15 16 Number Required Number Obtained
MIN MAX MEAN STD DEV	47 52 1 23 9 14 8	dpm/100 cm ² dpm/100 cm ² dpm/100 cm ² dpm/100 cm ²	MIN MAX MEAN STD DEV	-09 2 1 -0 1	dpm/100 cm² dpm/100 cm² dpm/100 cm² dpm/100 cm²
TRANSURANIC DCGL _W	100	dpm/100 cm²	TRANSURANIC DCGL _W	20	dpm/100 cm²
		Media Sar	Media Sample Activity		
	Media Samples	Number Required	Number Obtained		
Tota	Total Uranium Results	Its	-1	Total Transuranic Results	c Results
MIN MAX MEAN STD DEV	N/A N/A N/A	dpm/100 cm ² dpm/100 cm ² dpm/100 cm ² dpm/100 cm ²	MIN MAX MEAN STD DEV	N/A N/A N/A	dpm/100 cm² dpm/100 cm² dpm/100 cm² dbm/100 cm²
DCGLw	N/A]dpm/100 cm²	DCGLw		dpm/100 cm²

Survey Unit 77923 Building 779 Total Surface Contamination Results

Marie Mode 1837 M.E Electa with Potable Marie Mode Marie M			Total Surface Act								
1877 Ne 1877 Ne 1877 Ne 1877 Ne 1877 Ne 1877 N	Meter Model		oniace Ac	ivity survey				Origin	V Control V		
1837 1011699 107 107	Instrument #		NE Electra w/ DP6 Probe		Local Are	a Bkad (com)			COLLEGE	onivey	
122100 NIA N		1837	ΝΆ	N/A		3.0		ectra w/ UP6 Probe	-	Local Area	Bkgd (cpm)
Total Surface Activity Measurements	car Due Date	2/13/00	N/A	N/A			2349	NA	N/A		7
Serial strains Date Cpm) MAX demvitor cm² (demvitor cm²)	Efficiency (c/d)	0.211	N/A	Y A			12/24/99	N/A	N/A		
1877 1011699 140 40 82.1 2249 1011699 140 1011699 140 1011699 140 1011699 140 1011699 140 1011699 140 1011699 140 1011699 140 1011699 140 1011699 140 1011699 140 1101699 140 1101699 140 1101699 140 1101699 140 1101699 140 1101699 140 1101699 140			Total Surface	Activity Measi	remente		0217	N/A	N/A		
Serial # Date (cpm) MOA (dpm/100 cm²) (dpm/100 cm²) (dpm/100 cm²) (dpm/100 cm²) (dpm/100 cm²) MOA (dpm	Sample Location				3			Quality Co	introl Meas	surements	
1837 10/1809 140 40 521 Serial solutions Cpm) Cpm 1837 10/1809 6.0 40 14.2 Ap 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 17.5 6.0 40 47.5 6.0 40 47.5 6.0 40 47.5 6.0 40 47.5 6.0 40 47.5 6.0 40 47.5 6.0 40 47.5 6.0 40 40 40 40 40 40 40 40 40 40	Number	Serial #	Date	(com)	MOA (duminoo	:				MDA (dom/100	
1837 10/1899 67 40 142 2340 10/1899 93 42 1837 10/1899 67 40 1/12 40 <t< td=""><td>-</td><td>1837</td><td>10/18/00</td><td>(III)</td><td>(abun 100 cm.)</td><td>(dpm/100 cm²)</td><td>Serial #</td><td>Date</td><td>(cpm)</td><td>cm²)</td><td>(dpm/400 cm²)</td></t<>	-	1837	10/18/00	(III)	(abun 100 cm.)	(dpm/100 cm²)	Serial #	Date	(cpm)	cm²)	(dpm/400 cm²)
1837 10/1899 67 40 142 1837 10/1899 67 40 1/15 1837 10/1899 67 40 1/15 1837 10/1899 67 40 1/15 1837 10/1899 67 40 1/15 1837 10/1899 107 40 40 1/15 1837 10/1899 80 40 23.7 1/15 1837 10/1899 80 40 23.7 1/15 1837 10/1899 80 40 23.7 1/15 1837 10/1899 40 23.7 1/15 1837 10/1899 47 40 45 23.4 1837 10/1899 47 40 40 45 33.1 1837 10/1899 47 40 40 45 33.1 1837 10/1899 40 40 45 32.4 1 1837	2	1837	10/18/00	14.0	40	52.1	2349	10/18/99	60	42	(III) And and h
1837 10/1899 67 40 1/5 10/1899 67 40 1/5 10/1899 67 40 1/5	8	1827	200	09	40	14.2				7.5	25.8
1837		1001	10/18/99	6.7	40	17.5					
1837 10/18/99 67 40 17.5 6 1837 10/18/99 67 40 17.5 6 1837 10/18/99 12.0 40 42.5 6 1837 10/18/99 8.0 40 47 6 1837 10/18/99 8.0 40 23.7 6 1837 10/18/99 8.0 40 23.7 6 1837 10/18/99 8.0 40 33.3 7 1837 10/18/99 4.7 40 8.0 7.3 42 1837 10/18/99 4.7 40 4.5 2349 10/18/99 7.3 42 1837 10/18/99 4.0 4.0 4.5 2349 10/18/99 7.3 42 MINI 4.7 4.0 4.5 3.2 1 4.7 4.2 8D 4.0 4.0 4.7 4.7 4.2 4.2 8D 4.0 </td <td></td> <td>1837</td> <td>10/18/99</td> <td>53</td> <td>40</td> <td>40.0</td> <td></td> <td></td> <td></td> <td></td> <td></td>		1837	10/18/99	53	40	40.0					
1837 101699 67 40 175 1837 101699 120 40 426 1837 101699 120 40 426 1837 101699 40 47 40 1837 101699 80 40 237 1837 101699 80 40 238 1837 101699 127 40 80 1837 101699 127 40 40 1837 101699 127 40 80 1837 101699 127 40 40 40 45 2349 101699 73 41837 101699 47 40 47 MIN 47 47 40 8D 148 2349 101699 73 42 40 8D 47 47 8D 47 47 8D 148 183	40	1837	10/18/99	67	4	200					
1837 10/18/99 120 40 175 60 1837 10/18/99 107 40 426 6 1837 10/18/99 40 40 47 6 1837 10/18/99 80 40 23 8 6 1837 10/18/99 80 40 23 7 6 1837 10/18/99 100 40 23 7 6 1837 10/18/99 127 40 80 73 42 1837 10/18/99 40 40 45 2349 10/18/99 73 42 1837 10/18/99 40 40 45 2349 10/18/99 73 42 MIN 47 40 45 2349 10/18/99 73 42 MSD 40 40 45 2349 10/18/99 73 42 MIN 47 40 40 45 2349 10/18/99 73	9	1837	10/18/99	6.7	2 9	17.5					
1837 10718099 10.70 40 35.5 1837 10/1809 40 40 35.5 1837 10/1809 80 40 23.7 1837 10/1809 80 40 23.7 1837 10/1809 100 40 23.7 1837 10/1809 47 40 45.9 23.4 1837 10/1809 12.7 40 45.9 234.9 73 42 1837 10/1809 4.0 40 47.9 234.9 73 42 1837 10/1809 4.0 40 47.9 234.9 73 42 1837 10/1809 4.0 40 47.7 MNA 47.9 47.7 MAX 52.1 MAX 52.1 42 42 42 42 SD 148 23.9 42 42 42 42 42 42 42 42 42 42 42	7	1837	10/18/99	120	\$	17.5					
1837 10/18/99 10/18/99 40 40 47 40 1837 10/18/99 80 40 237 6 40 137 6 10/18/99 100 40 237 6 10/18/99 100 40 237 6 42 10/18/99 100 40 237 6 42 4	8	1837	10/18/99	100	40	42.6					
1837 10/18/99 80 40 237 1837 10/18/99 80 40 29.8 1837 10/18/99 80 40 29.8 1837 10/18/99 10.0 40 23.7 1837 10/18/99 12.7 40 8.0 1837 10/18/99 12.7 40 45.9 2349 1837 10/18/99 4.0 40 47 73 42 MIN 4.0 4.7 40 47 40 47 40 47 40 47 40 47 40 47 40 47 40 47 40 47 40 47 40 47 40 47 40 47 40 47 40 47 40 47 40 47 40 40 47 40 47 40 47 40 40 40 40 40 40 40 40 40	6	1837	10/18/00		40	36.5					
1837 10/18/99 80 40 23 7 6 1837 10/18/99 80 40 23 7 6 1837 10/18/99 100 40 33 1 6 1837 10/18/99 127 40 80 73 42 1837 10/18/99 127 40 47 73 42 MIN 47 47 47 47 47 MAX 52 1 52 1 80 73 42 SD 148 33 9 73 42 42 ASD 148 52 1 80 73 42 73 42 ASD 148 70 73 73 42 73 74 74 74	10	1837	10/18/00	40	40	47					
1837 10/18/99 80 40 23 7 6 1837 10/18/99 100 40 33 1 6 10/18/99 127 40 8 0 10/18/99 73 42 1837 10/18/99 127 40 45 9 2349 10/18/99 73 42 MiN 40 47 47 47 42	=	1837	660150	80	40	23.7					
1937 10/18/99 80 40 237	12	1007	10/18/99	93	40	29.8					
1837 10/18/99 10 40 33.1	5 5	183/	10/18/99	80	40	23.7					
1837 10/18/99 47 40 80 80 73 42 1837 10/18/99 127 40 45 2349 10/18/99 73 42 MiN 40 47 47 42 42 42 42 42 42 43 42 43 42 43 42 43 42 44 47 47 47 47 47 44 47 44 47 44 47 44 47 44 <td< td=""><td>2 7</td><td>1837</td><td>10/18/99</td><td>100</td><td>40</td><td>33.1</td><td></td><td></td><td></td><td></td><td></td></td<>	2 7	1837	10/18/99	100	40	33.1					
1837 10/18/99 127 40 45 9 2349 10/18/99 73 42 1837 10/18/99 40 40 47 73 42 MIN 47 52 1 MEAN 23 9 SD 148 Transuranic DCGL _W 100	<u>+</u>	1837	10/18/99	4.7	40						
1837 10/18/99 4.0 40 45.9 2349 10/18/99 7.3 4.2 MiN 47	15	1837	10/18/99	12.7	\$	0.80					
MIN 47 MIN 47 MAX 521 SS 148 SD 148 TOO STANDARD DCGL _W 100	16	1837	10/18/99	0.7	2	45.9	2349	10/18/99	73	42	16.6
				6	04	4.7					
					NIW	47					
					MAX	52.1					
					MEAN	23.9					
					SD	14.8					
					Transuranic DCGL _w	100					

Survey Unit 77923 Building 779 Smear Results

ocation					
		Sme	Smear Results		
7 2 7	Serial Number	Date Counted	Grose (com)	(Ammid90	
2	814	10/46/00	(IIIIda) coolo	(abin/100 cm²)	MDA
	044	68/01/01	0.5	90	83
~	014	10/18/99	00	60-	200
	614	10/18/99	00	60	Ca
4	814	10/18/99	0.5		000
5	814	10/18/99	0 7	0	
9	814	10/18/00		2.1	83
7	814	40/16/00	60	9 0	83
ω	814	10/10/39	0.0	6 0-	83
6	844	10/10/99	00	6 0-	83
10	044	66/81/01	0.5	90	83
7-7	910	10/18/99	0.0	60	200
	814	10/18/99	0.0		
12	814	10/18/99	200	50	83
13	814	10/18/00	000	9.0	83
14	811	10/10/39	0.5	90	83
15	044	10/18/99	0 0	6 0-	83
16	410	10/18/99	0.5	90	833
	0.14	10/18/99	0.0	60-	83
			MIN	60-	
			MAX	2.1	
			MEAN	-0 1	
			SD	10	
			ransuranic DCGL _w	20	

ATTACHMENT H Survey Unit 77924 Data Summary

SURVEY UNIT 77924 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGL_{w=}

>75% and <100% of DCGL_{w=}

Greater Than or Equal to DCGLw=

Survey Unit 77924 Data Summary

Total Surface Activity Measurements	Activity Mea	surements	Remova	ble Activity	Removable Activity Measurements
•					
	15	15		15	15
	Number Required	Number Obtained		Number Required	Number Required Number Obtained
:		•			
Z	60-	dpm/100 cm ²	Z Z	60-	dpm/100 cm ²
MAX	45 1	dpm/100 cm ²	MAX	2.1	dpm/100 cm ²
MEAN	191	dpm/100 cm ²	MEAN	-0 1	dpm/100 cm ²
STD DEV	14.8	dpm/100 cm ²	STD DEV	10	dpm/100 cm ²
•					
TRANSURANIC DCGL _W	100	dpm/100 cm ²	TRANSURANIC DCGL _w	20	dpm/100 cm ²
		Media Sar	Media Sample Activity		
	Media Samples	N/A	N/A		
		Number Required	Number Obtained		
	Total Hranii Douil	\$	٠	F	-
	Olaminii Nesulis	2	1	I otal I ransuranic Kesults	c Kesuits
NIM	N/A	dpm/100 cm ²	NΕ	A/N	dpm/100 cm ²
MAX	W/A	dpm/100 cm ²	MAX	N/A	dpm/100 cm ²
MEAN	W/A	dpm/100 cm ²	MEAN	N/A	dpm/100 cm ²
STD DEV	N/A	dpm/100 cm ²	STD DEV	N/A	dpm/100 cm ²
•					
DCGLw	N/A	dpm/100 cm ²	DCGLw	N/A	dpm/100 cm ²

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Survey Unit 77924 Building 779 Total Surface Contamination Results

		Total Surface Activity Survey	vity Survey				Quality	Quality Control Survey	Survey	
Meter Model		NE Electra w/ DP6 Probe		Local Area	Local Area Bkgd (cpm)	NE EI	NE Electra w/ DP6 Probe		Local Area	Local Area Bkgd (cpm)
instrument #	2349	N/A	N/A	2	22	1837	N/A	N/A		31
Cal Due Date	12/24/99	N/A	N/A			2/13/00	N/A	N/A		
Efficiency (c/d)	0.217	N/A	N/A			0.211	N/A	N/A		
		Total Surface Activity Measurements	ctivity Measu	rements			Quality Co	ntrol Mea	Quality Control Measurements	
Sample Location Number	Serial #	Date	(срт)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2349	10/18/99	4.7	34	11.5					
2	2349	10/18/99	33	8	5.1					
8	2349	10/18/99	113	34	419	1837	10/18/99	10.0	40	32.7
4	2349	10/18/99	80	34	26.7					
5	2349	10/18/99	53	34	14.3					
9	2349	10/18/99	67	34	20 7					
7	2349	10/18/99	113	34	419					
8	2349	10/18/99	87	34	29.9					
6	2349	10/18/99	120	8	45 1	1837	10/18/99	12.3	40	43 6
10	2349	10/18/99	60	85	17.5					
11	2349	10/18/99	20	75	60					
12	2349	10/18/99	40	रु	83					
13	2349	10/18/99	40	34	8.3					
14	2349	10/18/99	4.7	35	115					
15	2349	10/18/99	33	34	5 1					
				NIN	60-					
				WAX	45.1					
				MEAN	191					
				SD	148					
				Transuranic DCGL _w	100					

Survey Unit 77924 Building 779 Smear Results

Smear Location		Sme	Smear Results		
Number	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm ²)	MDA
1	814	10/18/99	0 0	6 0-	83
2	814	10/18/99	00	60-	83
3	814	10/18/99	0.5	90	83
4	814	10/18/99	0.5	90	83
5	814	10/18/99	00	6 0-	83
9	814	10/18/99	00	60-	83
7	814	10/18/99	0.5	90	83
8	814	10/18/99	0 0	6 Q-	83
6	814	10/18/99	0.5	90	83
10	814	10/18/99	0 0	6 0-	83
11	814	10/18/99	10	2.1	83
12	814	10/18/99	0 0	6 0-	83
13	814	10/18/99	0.5	90	83
14	814	10/18/99	0.5	90	83
15	814	10/18/99	0 0	6 0-	83
			NΙΨ	60-	
			MAX	2.1	
			MEAN	-0 1	
			SD	10	
			Transuranıc DCGL _w	20	

ATTACHMENT I Survey Unit 77925 Data Summary

SURVEY UNIT 77925 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGL_w=

>75% and <100% of DCGL $_{\text{W}}$ =

Greater Than or Equal to DCGL_{w=}



Survey Unit 77925 Data Summary

Total Surface Activity Measurements	Activity Mea	surements	Remova	ble Activity	Removable Activity Measurements
	30	30		30	30
	Number Required	Number Obtained		Number Required	Number Required Number Obtained
Ν	28	dpm/100 cm ²	NIM	-15	dpm/100 cm ²
MAX	65 0	dpm/100 cm ²	MAX	1.2	dpm/100 cm ²
MEAN	22.2	dpm/100 cm ²	MEAN	-0 4	dpm/100 cm ²
STD DEV	159	dpm/100 cm ²	STD DEV	80	dpm/100 cm ²
TRANSURANIC DCGL _W	100	dpm/100 cm²	TRANSURANIC DCGL _W	20	dpm/100 cm ²
		Media Sar	Media Sample Activity		
	Media Samples	N/A	N/A	_	
		Number Required	Number Obtained	, -	
Total	Total Uranium Results	<u>ts</u>	FI	Total Transuranic Results	c Results
Z	NIA	dpm/100 cm ²	MIN	N/A	dpm/100 cm ²
MAX	N/A	dpm/100 cm ²	MAX	AN	dpm/100 cm ²
MEAN	N/A	dpm/100 cm ²	MEAN	N/A	dpm/100 cm ²
STD DEV	N/A	dpm/100 cm ²	STD DEV	N/A	dpm/100 cm ²
DCGLw	N/A	dpm/100 cm²	DCGLw	N/A	dpm/100 cm²

Survey Unit 77925 Building 779 Total Surface Contamination Results

		I otal Sunace Activity	ivity Survey				Qualit	Quality Control Survey	Survey	
Meter Model	2	NE Electra w/ DP6 Probe		Local Area Bkgd (cpm)	Bkgd (cpm)	NE	NE Electra w/ DP6 Probe		Local Area	ocal Area Bkod (com)
Instrument #	1262	N/A	N/A	4	7	2376	¥N	A N	4	Carlo Legania
Cal Due Date	12/9/99	N/A	N/A			3/23/00	A/N	δ/N		
Efficiency (c/d)	0.215	N/A	N/A			0 206	ΝΆ	Ϋ́		
l.		Total Surface Activity Measurements	ctivity Measu	rements			Quality Co	Quality Control Measurements	surements	
Sample Location Number	Serial #	Date	(wds)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial	- Jack	(MC-)	MDA (dpm/100	(dnm/100 cm²)
-	1262	10/21/99	7.3	47	12.1			1	()	(upo con cuto)
2	1262	10/21/99	153	47	49.2	2376	10/22/99	140	1.7	47.0
8	1262	10/21/99	153	47	49.2					
4	1262	10/21/99	120	47	33.9					
2	1262	10/21/99	73	47	12.1					
9	1262	10/21/99	7.3	47	12.1					
7	1262	10/21/99	12.0	47	33.9					
80	1262	10/21/99	67	47	93					
6	1262	10/21/99	93	47	214					
10	1262	10/21/99	120	47	33.9					
Ξ	1262	10/21/99	90	47	9					
12	1262	10/21/99	12.7	47	37.1					
13	1262	10/21/99	73	47	12.1					
14	1262	10/21/99	6.7	47	9.3					
15	1262	10/21/99	187	47	65.0	2376	10/22/99	153	47	513
16	1262	10/21/99	113	47	30 6					
17	1262	10/21/99	9	47	0.9					
18	1262	10/21/99	53	47	2.8					
19	1262	10/21/99	80	47	15.3					
20	1262	10/21/99	8.7	47	18 6					
21	1262	10/21/99	8.7	47	186					
22	1262	10/21/99	53	47	2.8					
£	1262	10/21/99	133	47	39.9					
24	1262	10/21/99	80	47	15.3					
52	1262	10/21/99	87	47	186					
56	1262	10/21/99	100	47	246					
27	1262	10/21/99	67	47	9.3					
28	1262	10/21/99	53	47	2.8					
29	1262	10/21/89	100	47	246					
30	1262	10/21/99	13.3	47	39.9					
				N N	28					
				MAX	65.0					
				MEAN	22.2					
				SD	159					

Survey Unit 77925 Building 779 Smear Results

Smear Location		Smo	Smear Results		
Number	Serial Number	Date Counted	Gross (com)	(dpm/400 cm ²)	1
1	814	10/21/99	0.5		MUM
2	814	10/21/99	00	1 5	0 0
8	1407	10/21/99	00	-03	9 2
4	814	10/21/99	0.5	0.0	96
ς (814	10/21/99	0 0	-15	96
٦٥	814	10/21/99	0 0	-15	96
	1407	10/21/99	9.0	12	6.5
×	814	10/21/99	0 0	-15	96
5	1407	10/21/99	9.0	00	65
10	814	10/21/99	0.0	-15	96
	1407	10/21/99	0.5	12	65
172	814	10/21/99	0.0	-15	96
13	1407	10/21/99	0.0	-03	65
14	1407	10/21/99	00	-03	6.5
13	1407	10/21/99	0.0	-03	6.5
9 1	814	10/21/99	0.5	0.0	96
7	1407	10/21/99	0 0	-03	65
18	814	10/21/99	0.5	0.0	96
5 6	814	10/21/99	0.5	00	96
707	814	10/21/99	0 0	-15	96
17	1407	10/21/99	0 0	-03	65
77	1407	10/21/99	0 0	-03	65
27	1407	10/21/99	0.5	12	65
24	814	10/21/99	0.0	-15	96
20	140/	10/21/99	0.0	-03	65
207	814	10/21/99	0.5	0 0	96
28	4107	10/21/99	00	-15	96
200	1407	10/21/99	00	-0 3	65
20	140/	10/21/99	0.0	-03	65
30	1407	10/21/99	0 0	-0 3	96
			NIM	-15	
			MAX	12	
			MEAN	-0.4	
1			Translitranic DCCI	8.0	
			Talisalalia DOGEW	70	

ATTACHMENT J Survey Unit 77926 Data Summary

SURVEY UNIT 77926 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGL $_{\rm W^{=}}$

>75% and <100% of DCGL_{w=}

Greater Than or Equal to DCGL_{w=}



Survey Unit 77926 Data Summary

Total Surface Activity Measurements	Activity M	easurements	Remova	able Activity	Removable Activity Measurements	
					,	
	28	28		28	28	
	Number Required	ed Number Obtained		Number Required	Number Obtained	===
•		ſ				
Z	-27	dpm/100 cm ²	NIN	6 Q	dpm/100 cm ²	
MAX	39 3	dpm/100 cm ²	MAX	4.2	dpm/100 cm ²	
MEAN	143	dpm/100 cm ²	MEAN	0 1	dpm/100 cm ²	
STD DEV	120	dpm/100 cm ²	STD DEV	13	dpm/100 cm ²	
CINACIONACT						
DCGLW	100	dpm/100 cm ²	TRANSURANIC DCGLw	50	dpm/100 cm²	
		Media Sar	Media Sample Activity			= === =
	Media Samples	N/A	N/A	_		-
		Number Required	Number Obtained			
Tota	Total Uranium Results	sults		Total Transuranic Results	c Results	
		{			 	
Z Ž	N/A	dpm/100 cm ²	Z W	N/A	dpm/100 cm ²	-
MAX	N/A	dpm/100 cm ²	MAX		dpm/100 cm ²	. ,.
MEAN	N/A	dpm/100 cm ²	MEAN	N/A	dpm/100 cm ²	==
STD DEV	N/A	dpm/100 cm ²	STD DEV	N/A	dpm/100 cm ²	==
DCGL _w	A/A	dpm/100 cm²	DCGLw	N/A	dpm/100 cm ²	
						===
7						

Survey Unit 77926 Building 779 Total Surface Contamination Results

			Decivity our vey					Calairty Control Alice	Simon
Meter Model		NE Electra w/ DP6 Probe		Local Area	Local Area Bkod (com)	i un	NE Floring w/ DDs Drobo		2000
instrument #	1265	1375	2349		39	2384	N/A	\$ \ \frac{1}{2}	Local Area Bkgd (cpm)
Cal Due Date	3/20/00	12/8/99	12/24/99			OUBLIC	4/14		dimensional registers — commenced to the commenced of the
Efficiency (c/d)	0.215	0.219	0 224			0 220	N AN	A N	
		Total Surface	ce Activity Measurements	rements			Quality Co	ontrol Mea	Quality Control Measurements
Sample Location	orisi #	- Tar	(mod)	MDA (dom/d to) con?	2				-
-	1265	09/16/99	7.3	43	15 8	Senal #	Date	(cpm)	(dpm/100 cm²)
2	1265	09/16/99	40	\$	50	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000		
3	1265	09/16/99	47	843	3.7		*		
4	1265	09/16/99	53	43	9				
5	1265	09/16/99	0.9	43	86	77		***************************************	
9	1265	09/16/99	7.3	43	15.8				
7	1265	09/16/99	4 0	43	0.5				
8	1265	09/16/99	53	43	5 9				
6	1265	09/16/99	73	43	15.8				
10									
=	1375	09/01/89	12.0	42	37 0				
12	1375	09/01/99	53	42	6.4				
13	1375	09/01/99	8.0	42	18.7	2.46			
14	1375	09/01/89	113	42	33.8				The second secon
15	2349	09/01/99	12.7	42	39.3	2384	10/15/99	7.3	78 C
16	2349	09/01/99	6.7	42	12.5	The state of the s		A STANLING	The second second
17	2349	09/01/99	9.3	42	24 1			The second second	
18	1375	09/01/99	80	42	181				
19	2349	09/01/99	53	42	6.3				
20	2349	09/01/99	87	42	215				
21	1375	09/01/99	9	42	9 6				
22	1375	09/01/99	33	42	2.7				
23	2349	09/01/99	53	42	6.3				
24	2349	09/01/99	47	42	3.6				
25	2349	09/01/99	6.7	42	12.5				
26	1375	09/01/99	47	42	3.6				
27	1375	09/01/89	107	42	31.0				
28	2349	09/01/99	12.0	42	36.2	2384	10/15/99	9	26 228
29	2349	09/01/99	53	42	6.3				
				WIN	27				
				MAX	39.3				
				MEAN	14.3				
				S	12.0				

Survey Unit 77926 Building 779 Smear Results

Smear Location		Sme	Smear Results		
Number	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm ²)	Y CA
-	814	10/15/99	10	2 1	AUM Co
2	814	10/15/99	0.5	0.6	200
2	814	10/15/99	00	000	200
4	814	10/15/99	0.0	000	000
6	814	10/15/99	0.0		000
9	814	10/15/99	00	60-	200
7	814	10/15/99		60,0	83
8	814	10/15/00		9.0	83
6	814	10/15/00	0.0	60-	83
		SS/C1/O1	0.0	6 0-	83
11	814	9/1/00			
12	814	0/1/00	000	-03	6.5
13	1407	9/1/99	0.0	0.3	6.5
14	1407	9/1/99	10	2.4	7.5
15	1407	0/4/00	0.0	9 0-	7.5
16	814	0/1/00	0.0	9 0-	7.5
17	1407	0/1/00	0.0	-03	65
18	814	0/1/00	0.0	9 0-	7.5
19	1407	8/1/8	15	4.2	6.5
20	814	9/1/99	0.0	9 0-	7.5
21	847	9/1/99	0.0	-0 3	65
22	1407	9/1/99	10	2.7	65
23	140/	9/1/99	0.0	9 0-	7.5
24	4407	9/1/99	0.0	-03	65
25	1407	9/1/99	0.0	9 0-	7.5
26	814	9/1/99	0.0	9 0-	7.5
27	944	8/1/8	0.0	-03	65
286	4407	9/1/99	0.5	12	65
200	140/	9/1/99	0.0	90	7.5
The state of the s	814		0.0		6.5
			MIN		**
			MAX		
			MEAN	0.1	
		The second secon	SD		p p
Note Sample location and 40	4 day		ransuranic DCGL _w		
		The state of the s			

ATTACHMENT K Survey Unit 77927 Data Summary

SURVEY UNIT 77927 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGL_w=

>75% and <100% of DCGL_w=

Greater Than or Equal to DCGL_{w=}

Survey Unit 77927 Data Summary

Total Surface Activity Measurements	Activity Mea	surements	Remova	ble Activity	Removable Activity Measurements	
			-			_
	15	23		15	23	
	Number Required	Number Obtained		Number Required	Number Required Number Obtained	
Y		2			•	
		apm/100 cm ⁻	Z	9 0	dpm/100 cm ²	
MAX	614	dpm/100 cm ²	MAX	2.4	dpm/100 cm ²	
MEAN	10 6	dpm/100 cm ²	MEAN	0 4	dpm/100 cm ²	
STD DEV	16 6	dpm/100 cm ²	STD DEV	13	dpm/100 cm ²	-
						_
TRANSURANIC DCGL _W	100	dpm/100 cm ²	TRANSURANIC DCGL	20	 dpm/100 cm²	
		Media Sa	Media Sample Activity			*:
	Media Samples	15	15			
_	•	Nimbor Dogumon	Ni imbor Obtained	_		
		Manner Reduited	Number Obtained	7		
Total	Total Uranium Results	ts	r	Total Transuranic Results	c Results	
		I	•			_
Z	42	dpm/100 cm ²	Z	00	dpm/100 cm ²	
MAX	720	dpm/100 cm ²	MAX	13.9	dpm/100 cm ²	
MEAN	27.3	dpm/100 cm ²	MEAN	3.7	dpm/100 cm ²	
STD DEV	25.5	dom/100 cm ²	STD DEV	***	dom/400 02	
			200	4	apin/100 cm	
DCGLw	5000	dpm/100 cm ²	DCGLw	100	dpm/100 cm ²	
					_	

Survey Unit 77927 Building 779 Total Surface Contamination Results

Meter Model Instrument # Cal Due Date Efficiency (cid) Sample Location Number 1 1 3	1194 10/22/99 0 221 Serial #	NE Electra w/ DP6 Probe		Local Area Bkgd (cpm)	Bkad (com)	E E	NE Electra w/ DP6 Probe	P6 Probe	Local Area Bkgd (cpm)	Bkad (cpm)
Cal Due Date Efficiency (c/d) Sample Location Number 2	1194 10/22/99 0 221 Serial # 1194		****						-	
Cal Due Date Efficiency (c/d) Sample Location Number 1 2 3	10/22/89 0 221 Serial # 1194	N/A	A/A	3	7	2384	¥	ž	-	7
Sample Location Number 2 3	Serial # 1194	N/A	N/A			2/29/00	A/A	N/A		
Sample Location Number 1 2 3	Serial # 1194	N/A	W/A			0 220	ΑΝ	Αχ		
Sample Location Number 1 2 3	Serial # 1194 1194	Total Surface Activ	ctivity Measurements	ements			Quality Co	ontrol Mea	Quality Control Measurements	
3	1194	Date	(cbm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	- Cate	(was)	MDA (dpm/100	(dnm/100 cm²)
3	1194	08/22/99	153	4	52.4				()	(abus com (abus)
3		08/25/99	09	14	10.4					
	1194	08/25/99	33	41	18					
4	1194	08/25/99	53	41	7.2					
5	1194	08/25/99	93	41	25 3	2384	10/19/99	09	31	19.6
9	1194	08/25/99	47	14	4.5					
7	1194	08/25/89	29	41	13.6					
8	1194	08/25/99	11	14	0.6					
6	1194	08/25/99	7.3	14	16.3	2384	10/19/99	9	31	19.6
10	1194	08/25/99	2.7	14	4.5					S.C.
11	1194	08/25/99	47	14	4.5					
12	1194	08/25/99	2.7	41	45					
13	1194	08/25/99	2.7	41	4.5					
14	1194	08/25/99	47	41	4.5					
15	1194	08/25/99	09	41	10.4					
16	1194	08/25/99	47	41	4.5					
17	1194	08/25/99	47	41	4.5					
18	1194	08/25/99	17.3	41	614					
19	1194	08/25/99	0.9	41	10.4					
20	1194	08/25/99	67	41	13.6					
21	1194	08/25/99	4.7	41	4.5					
22	1194	08/25/99	67	41	13.6					
23	1194	08/25/99	53	41	7.2					
				NIN	90					
				MAX	614					
				MEAN	106					
				SD	16.6					
				Transuranic DCGL _w	100					

Survey Unit 77927 Building 779 Smear Results

Smear Location		Sme	Smear Results		
Number	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm ²)	ACM
1	814	8/26/99	0.0	90	75
2	1407	8/26/99	0.5	000	7.5
3	814	8/26/99	00	90	75
4	1407	8/26/99	00	90	7.5
2	814	8/26/99	10	24	7 7
9	1407	8/26/99	00	1 0	10
2	814	8/26/99	10	24	7.5
8	1407	8/26/99	0.0	90-	75
5)	814	8/26/99	0.0	90-	7.5
2	1407	8/26/99	00	90-	7.5
= \$	814	8/26/99	10	24	7.5
71	1407	8/26/99	00	9 0-	7.5
2	814	8/26/99	00	90-	7.5
4	1407	8/26/99	00	90-	75
15	814	8/26/99	10	24	7 7
91	1407	8/26/99	00	90-	7.5
7	814	8/26/99	10	2.4	7.5
2	1407	8/26/99	00	90-	7.5
61	814	8/26/99	0.0	90-	7.5
20	1407	8/26/99	0.0	9 0-	7.5
17	814	8/56/99	10	2.4	
777	1407	8/26/99	0.5	60	7.5
23	814	8/26/99	0.5	60	75
			MIN	90-	
			MAX	2.4	
			MEAN	0.4	
A.			SD	13	
			Transuranic DCGL _w	20	

	TRANSURANIC TOTAL (dpm/100cm²)					0.1				2 8				3.1					2.1					6.1					2.0		
	URANIUM TOTAL (dpm/100cm²) OCGL=5000			4.2				37.7					72.0				8 89					99					10 4				
e Results	ESTIMATED MDA (dpm/100cm²)	0.1	0.2	0 1	0.2	0.2	12	2.0	3.0	14	18	23	32	23	29	2.1	2.9	36	21	10	0.8	90	12	0 8	11	14	11	14	17		
927 Building 779 Paint/Solid Media Sample Results	INDIVIDUAL NUCLIDE (dpm/100cm²)	23	0 0	19	0 1	0 0	19.2 0.5	181	90	2.1	37.1	1 /	33 3	60	35.9	15	314	14	2.0	28	90	3.2	60	52	4 1	0.5	58	2.0	0 0		
VSolid N	SURFACE AREA (in²)	40					40				40				40					40			•	Ş	0 4						
79 Pair	WEIGHT (9)	2 82					37 14				53 88				51 10					18 86				000	ر م م						
ıldıng 7	MDA (pCi/g)	0 036	0 078	0 036	0 076	0 082	0.036	0 064	0 093	0 045	0 039	0.048	0 069	0 020	0 067	0 047	990 0	0 081	0 047	0 061	0 048	0 039	//00	0 048	0.030	0 044	0 036	0 044	0 054		
927 Bu	pCi/g	996 0	-0 007	0 764	0 030	0 010	0 600	0 565	0 020	0 067	0 800	0000	0 718	0 019	0 816			- 1	이	0 174	0 035	0 199	8000	0 318	7 0 132	0.016	0 184	0 064	0000		
Survey Unit 77	NUCLIDE	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234 U-235	U-238	Pu-239/240	Am-241	U-233/234	0-2-00	U-238 Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	PU-239/240	Am-241	0-233/234	U-235	U-238	Pu-239/240	Am-241		
Sur	SITE SAMPLE ID	001 001					002 001				003 001				004 001					005 001				000	100 000						
	SAMPLE LOCATION NUMBER	-					7	-			က				4					2				ď	0						
	LOCATION DESCRIPTION	Room 163,	Wall 8				Room 163, Wall 2				Room 161,	V Vall S			Room 161,	Wall 2				Room 159,	Ceiling			Dog 450	KOOIII 138,	Ceiling					

	TRANSURANIC TOTAL (dpm/100cm²)	DCGL _w =100	0.5	139		0 0	10 9	0.4
	URANIUM TOTAL (dpm/100cm²)	DCGL w=5000	57		53	86	23.5	
le Results	ESTIMATED MDA	(apm/10cm) 0 6 0 6 0 8	00 09 12 21	G.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 10 12 18 18 18 18 18 18 18 18 18 18 18 18 18	27 27 19 16	31
survey Unit 77927 Building 779 Paint/Solid Media Sample Results	INDIVIDUAL	1 5 0 3 0 3 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0	17 06 33 49	0.6	19 02 31 00	32 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35 84 00 00	04
t/Solid I	SURFACE	40	40		40	40	40	
79 Pain	WEIGHT (a)	11 99	24 90		16 75	33 72	4197	
ıldıng 7	MDA (pCl/q)	0 061 0 043 0 061 0 077	0 058 0 041 0 058 0 098		0 057 0 046 0 066 0 042	0 035 0 061 0 061	0 075 0 052 0 042 0 044	
7927 Bu	DCKa	0 225 0 032 0 148 0 026	0 081 0 030 0 153 0 229 0 418		0 133 0 017 0 216 0 000	0 154 0 032 0 110 0 275	0 321 0 096 0 000 0 000	
vey Unit 77	NUCLIDE	U-233/234 U-235 U-238 Pu-239/240 Am-241	U-233/234 U-235 U-238 Pu-239/240 Am-241		U-233/234 U-235 U-238 Pu-239/240 Am-241	U-233/234 U-235 U-238 Pu-239/240 Am-241	U-233/234 U-236 U-238 Pu-239/240 Am-241	
uno.	SITE SAMPLE ID	008 001	009 001		011 001	012 001	013 001	
	SAMPLE LOCATION NUMBER	ω	6		.	12	13	
	LOCATION DESCRIPTION	Room 159, Ceiling	Room 159, Wall 1		Room 159, Ceiling	Room 159, Ceiling	Room 159, Wall 1	

Survey Unit 77927 Building 779 Paint/Solid Media Sample Results

TRANSURANIC TOTAL (dpm/100cm²) DCGL w=100				10
URANIUM TOTAL (dpm/100cm²) DCGL w=5000			63.2	26.2
ESTIMATED MDA (dpm/100cm²)			18 18 18 43	23 08 10 17 12
INDIVIDUAL NUCLIDE (dpm/100cm²)			28 0 5 9 29 3 0 2	135 11 11 16 05
SURFACE AREA (in²)			04	40
WEIGHT (g)			61 12	28 25
MDA (pCi/g)			0 035 0 035 0 035 0 082	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
pCi/g			0 533 0 112 0 557 0 003	0 554 0 046 0 064 0 019
NUCLIDE			U-233/234 U-235 U-238 Pu-239/240 Am-241	U-233/234 U-235 U-238 Pu-239/240 Am-241
SITE SAMPLE ID			020 001	021 001
SAMPLE LOCATION NUMBER			20	21
LOCATION DESCRIPTION			Room 163, Wall 1	Room 163, Wall 9

Survey Unit 77927 Building 779 Paint/Solid Media Sample Results

	_	_	an	n in		lilli	2.77	111.			<i></i>				
TRANSURANIC TOTAL	(dpm/100cm ²)	DCGL w=100							9						1 3
URANIUM TOTAL	(dpm/100cm²)	DCGL w=5000				6/1						55.1	- 66		
ESTIMATED MDA	(dnm/100cm²)	(dbull loocill)	/	20	20	4.3	0 /	44		5.8	18	14	C V	4.0	19
INDIVIDUAL	(dpm/100cm²)	2.7	7	00	13.7		3 1	65	200	60.7	26	29 0	90		0 /
SURFACE	AREA (In ²)	ΨV	?						Q¥	?					
WEIGHT	(a)	52 15	!						50 88	}		_			
MDA	(pCi/g)	0 037	0.045		COO O	0 155		0 030	2900	0000		0.032	0 099	0 043	
	pCi/g	0 095	0000	0 205	COCO	690 0	777		0 538	0.050	0 662	200	0.013	0.016	
Š	MUCLIDE	0-233/234	U-235	11.238	0.500	Pu-239/240	Am-241	700,000	0-233/234	U-235	11-238	Di. 220/240	r u-238/240	Am-241	14.10 200
SITESAMPLE	700000	100 770						700 000	100 070						cations 7 10 and
SAMPLE LOCATION NUMBER	22	77						23	7		-		•		media for loc
LOCATION DESCRIPTION	Room 163	10/511 7	/ Mail /		_	_		Room 163	100	veall 3	_				Note Surface r
	LOCATION NUMBER SITE SAMPLE IN MICHEL MAN WEIGHT SURFACE NUCLIDE ESTIMATED MAN	LOCATION NUMBER SITE SAMPLE ID NUCLIDE PCING (pCi/g) (g) AREA (in²) (dpm/100cm²) (dpm/100cm²)	SAMPLE	SAMPLE	SAMPLE LOCATION NUCLIDE DCI/g (pCi/g) (g) AREA (in²) (dpm/100cm²) DCGL/w=5000 DCI/g DCI/	LOCATION NUCLIDE DCI/g (pCi/g) (g) AREA (in²) (dpm/100cm²) DCGL_w=5000 D-233/234 D 095 D 037 52 15 40 4 3 17 DCGL_w=5000 D 045 D 055 D 065 D 0	SAMPLE LOCATION NUCLIDE DCI/IG (PCI/IG) (PC	SAMPLE LOCATION NUCLIDE PCIG (PCIG)	LOCATION NUMBER SITE SAMPLE ID NUCLIDE PCIIG (PCIIG) (g) AREA (in²) (dpm/100cm²) LOCATION AREA (in²) (dpm/100cm²) DCGL w=5000 D-233/234 D 095 D 037 S2 15 40 43 17 BCGL w=5000 D-238 D 0305 D 045 D 065 D	LOCATION NUCLIDE DCIIg (pCi/g) (g) AREA (in²) (dpm/100cm²) DCGL_W=5000	LOCATION NUMBER SITE SAMPLE NUCLIDE DCUG NUCLIDE PCUG PC	LOCATION NUMBER SITE SAMPLE NUCLIDE DCUG NUCLIDE PCUG PC	LOCATION NUMBER SITE SAMPLE NUCLIDE DCUg PCUg PU-233/234 D.095 D.037 52 15 AD AREA (in²) (dpm/100cm²) AREA (in²) (dpm/100cm²) DCGL w=5000	COCATION SITE SAMPLE DIVIDIDE DCIIG (pCiig) (g) AREA (in²) (dpm/100cm²) (dpm/100cm²) (dpm/100cm²) (dpm/100cm²) DCGL w=6000 DCIG w = 6000 DCIG w = 6000 DCIG w = 6000 DCIG w = 6000 DCIG w = 60000 DCIG w = 6000 DCIG w	LOCATION LOCATION

7, 10, and 14-19 was removed prior to survey
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14-19 wa
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NIW	42	0 0
MAX	720	13.9
MEAN	27 3	3.7
SD	25 5	4 4
DCGL _W =	2000	100

ATTACHMENT L Survey Unit 77928 Data Summary

SURVEY UNIT 77928 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGLw=

>75% and <100% of DCGL_{w=}

Greater Than or Equal to DCGL_{w=}



Survey Unit 77928 Data Summary

Total Surface Activity Measurements	Activity Mea	surements	Remova	ble Activity	Removable Activity Measurements
	15 Number Required	15 24 Number Required Number Obtained		15 Number Required	15 24 Number Required Number Obtained
MIN MAX MEAN STD DEV	-82 400 89 98	dpm/100 cm² dpm/100 cm² dpm/100 cm² dpm/100 cm²	MIN MAX MEAN STD DEV	00 15 04 07	dpm/100 cm² dpm/100 cm² dpm/100 cm² dpm/100 cm²
TRANSURANIC DCGL _W	100	dpm/100 cm²	TRANSURANIC DCGL _W	20	dpm/100 cm²
		Media Sar	Media Sample Activity		
	Media Samples	15 Number Required	15 Number Obtained		
Total	Total Uranium Results	डी	Ħ	Total Transuranic Results	c Results
MIN	323 2	dpm/100 cm ² dpm/100 cm ²	MIN	00 80	dpm/100 cm² dpm/100 cm²
MEAN STD DEV	101 7	dpm/100 cm² dpm/100 cm²	MEAN STD DEV		dpm/100 cm² dpm/100 cm²
DCGLw	2000	dpm/100 cm²	DCGLw	100	dpm/100 cm²

Survey Unit 77928 Building 779 Total Surface Contamination Results

Machine Mach			Total Surface Activity	tivity Survey				Qualit	Quality Control Survey	Survey	
11/15/10 207100 NAN 250 11/15/10	Meter Model		NE Electra w/ DP6 Probe		Local Area I	Bkqd (cpm)	I II V	lectra w/ DP6 Probe		Octal Area	Bhod (com)
1,1000 1,2000 1,014 1,	Instrument #		2379	ΑΝ	2	5		N/A	L	TOTAL AIG	Briga (cpm)
Column C	Cal Due Date	1/19/00	2/27/00	A/N			10/8/99	A/N	N/N		
Ottal Surface Activity Measurements	Efficiency (c/d)	0 220	0.210	N/A			0 222	N/A	¥X		
Date (cpm) MOA (down'too cm²) (down'too cm²)			Total Surface	Activity Measu	rements				ontrol Mea	surements	
06/14/99 4.7 36 1/10 06/14/99 2.7 38 0.0 06/14/99 2.3 3.6 10.0 06/14/99 4.7 3.6 10.0 06/14/99 5.3 3.6 10.7 06/14/99 5.3 3.6 1.2.7 06/14/99 2.7 3.6 1.2.7 06/14/99 2.7 3.6 1.2.7 06/14/99 2.7 3.6 4.0 06/14/99 1.13 3.6 4.0 06/14/99 1.13 3.6 4.0 06/14/99 1.13 3.6 4.0 06/14/99 1.13 3.6 1.2 06/14/99 3.1 3.6 3.7 06/14/99 3.1 3.6 3.2 06/14/99 3.3 3.6 3.6 06/14/99 3.3 3.6 3.6 06/14/99 3.3 3.6 3.6 06/14/99 3.3 3.6	Sample Location Number	Serial #	Date	(cbm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	ł	(w u)	MDA (dpm/100	(dom/100 cm²)
06/14/99 27 38 0.0 06/14/99 33 36 10.0 06/14/99 43 10.0 10.0 06/14/99 53 36 12.7 10.0 06/14/99 53 36 12.7 12.7 12.7 06/14/99 53 36 12.7 12.7 47 47 06/14/99 113 36 40.0 127 47 47 06/14/99 113 36 40.0 127 47 47 06/14/99 113 36 40.0 127 47 47 06/14/99 31 36 12.7 36 47 47 06/14/99 31 36 36 36 36 36 36 06/14/99 33 36 36 36 36 36 36 06/14/99 33 36 36 36 36 36 37 41 06/	-	2358	08/14/99	4.7	98	10.0)	(mp condo)
06/1499 39 36 10 06/1499 47 36 10 06/1499 53 36 10 06/1499 53 36 12 06/1499 33 36 12 06/1499 27 36 36 06/1499 13 36 12 06/1499 13 36 127 06/1499 40 36 68 06/1499 33 36 1370 06/1499 33 36 1370 06/1499 33 36 1370 06/1499 33 36 1370 06/1499 33 36 1370 06/1499 30 36 1370 06/1499 33 36 136 06/1499 33 36 136 06/1499 30 36 136 06/1499 33 36 136 06/1499 36 <td>2</td> <td>2358</td> <td>08/14/99</td> <td>2.7</td> <td>æ</td> <td>0.0</td> <td></td> <td></td> <td></td> <td></td> <td></td>	2	2358	08/14/99	2.7	æ	0.0					
06/14/99 47 36 100 06/14/99 53 39 127 06/14/99 53 36 127 06/14/99 53 36 127 06/14/99 27 36 127 06/14/99 27 36 127 41 06/14/99 113 36 63 47 41 06/14/99 113 36 63 47 41 06/14/99 33 36 63 127 41 06/14/99 33 36 63 37 41 06/14/99 33 36 127 47 41 06/14/99 33 36 127 47 41 06/14/99 33 36 136 37 41 06/14/99 33 36 136 37 41 06/14/99 40 36 130 42 42 06/14/99 40 36	3	2358	08/14/99	33	8	3.6					
0814699 53 36 1127 6814699 0814699 53 36 127 68 0814699 23 36 127 41 0814699 113 36 127 41 0814699 113 36 40 170 41 0814699 113 36 127 41 41 0814699 33 36 127 41 41 0814699 33 36 127 41 41 0814699 33 36 127 41 41 0814699 33 36 127 41 41 0814699 33 36 125 36 41 41 0814699 33 36 100 36 63 41 41 0814699 33 36 100 36 63 41 41 081469 33 36 63 63 63 <td>4</td> <td>2358</td> <td>08/14/99</td> <td>4.7</td> <td>98</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td>	4	2358	08/14/99	4.7	98	10.0					
06/14/99 53 36 127 6 06/14/99 33 36 137 8 06/14/99 53 36 127 41 06/14/99 113 36 400 1370 06/16/99 47 41 06/14/99 113 36 40 1370 06/16/99 47 41 06/14/99 33 36 12 47 41 06/14/99 33 36 12 41 41 06/14/99 33 36 12 41	25	2358	08/14/99	53	98	12.7					
08/14/99 33 36 36 16 08/14/99 27 38 0.9 40 08/14/99 153 36 127 41 08/14/99 113 36 40 1370 00/14/99 47 41 08/14/99 33 36 6.8 36 36 41 41 08/14/99 0.7 36 6.8 36 12.7 41 41 08/14/99 0.7 36 1.2 36 41 41 41 08/14/99 0.7 36 1.2 36 41 4	θ	2358	08/14/99	53	36	12.7					
0014499 53 36 0 9 0014499 53 36 127 370 004/1690 47 41 0014499 113 36 400 1370 004/1690 47 41 0014499 33 36 127 41 41 0014499 53 36 127 41 0014499 33 36 127 41 0014499 33 36 150 41 0014499 33 36 160 68 41 0014499 33 36 127 41 0014499 33 36 127 41 0014499 40 36 68 8 0014499 40 36 68 8 0014499 40 36 127 4 0014499 40 36 68 8 0014499 40 36 68 8 M	7	2358	08/14/99	33	98	3.6					
08/14/99 53 36 127 08/14/99 47 41 08/14/99 410 36 400 1370 08/16/99 47 41 08/14/99 40 36 68 68 68 47 41 08/14/99 03 36 82 68 83 41 84 08/14/99 33 36 127 86 83 41 84 08/14/99 33 36 15 1370 08/16/99 33 41 08/14/99 33 36 16 86 38 41 84 08/14/99 47 36 21 8	8	2358	08/14/99	2.7	98	60					
08/14/99 113 36 400 1370 08/16/99 47 41 08/14/99 33 36 58 36 47 41 08/14/99 33 36 36 36 41 41 08/14/99 33 36 36 36 41 41 08/14/99 33 36 36 36 41 41 08/14/99 33 36 36 36 41 41 08/14/99 47 36 100 68 41 68 08/14/99 73 36 127 68 68 68 08/14/99 40 36 68 68 68 68 08/14/99 40 36 127 68 68 68 08/14/99 40 36 68 68 68 68 68 08/14/99 40 36 127 68 68 68 68	O.	2358	08/14/99	53	98	12.7					
08/14/99 40 36 68 8 08/14/99 33 36 36 36 08/14/99 63 36 127 8 08/14/99 80 36 127 8 08/14/99 80 36 127 8 08/14/99 33 36 100 41 08/14/99 33 36 100 8 08/14/99 47 36 100 8 08/14/99 47 36 100 8 08/14/99 47 36 100 8 08/14/99 40 36 68 8 08/14/99 40 36 68 8 08/14/99 40 36 68 8 08/14/99 40 36 68 8 08/14/99 40 36 127 8 08/14/99 40 36 68 8 08/14/99 40	10	2358	08/14/89	113	36	40 0	1370	08/16/99	47	41	4.5
08/14/99 33 36 36 36 36 36 36 36 37 41 36 41 <	F	2358	08/14/99	40	36	6.8					
08/14/99 07 36 8 2 8 08/14/99 53 36 127 41 08/14/99 33 36 150 41 08/14/99 33 36 250 41 08/14/99 33 36 36 41 08/14/99 47 36 100 68 08/14/99 73 36 128 68 08/14/99 40 36 68 68 08/14/99 40 36 68 68 08/14/99 40 36 68 68 08/14/99 40 36 68 68 08/14/99 40 36 68 68 08/14/99 40 36 68 68 08/14/99 40 36 68 68 08/14/99 40 89 68 68 100 89 89 68 68 100 89	12	2358	08/14/99	33	98	3.6					
0811499 53 36 127 0814699 33 41 0814499 80 36 250 1370 081669 33 41 0814499 33 36 36 36 36 47 47 36 100 47 47 36 100 47 40	13	2358	08/14/99	0.7	36	8.2					
08/14/99 33 41 08/14/99 80 36 25.0 1370 06/16/99 33 41 08/14/99 33 36 36 36 41 41 41 42 <	14	2358	08/14/99	53	98	12.7					
08/14/99 80 36 250 08/14/99 33 36 36 08/14/99 47 36 100 08/14/99 73 36 218 08/14/99 40 36 218 08/14/99 53 36 23 08/14/99 53 36 127 08/14/99 40 36 63 08/14/99 40 36 63 08/14/99 40 36 63 08/14/99 40 36 63 08/14/99 40 36 63 08/14/99 40 36 63 08/14/99 40 89 63 08/14/99 50 89 63 100 89 98 68 100 98 98 98	15	2358	08/14/99	33	36	3.6	1370	08/16/99	33	41	8.
08/14/99 33 36 36 08/14/99 33 36 08/14/99 47 36 08/14/99 73 36 08/14/99 53 36 08/14/99 53 36 08/14/99 53 36 08/14/99 53 36 08/14/99 53 36 MiN MAX MEAN SD SD SD SD SD SD SD SD SD SD SD SD SD	16	2358	08/14/99	80	36	25.0					
08/14/99 33 36 36 08/14/99 47 36 08/14/99 73 36 08/14/99 20 36 08/14/99 53 36 08/14/99 53 36 08/14/99 53 36 MiN MAX MEAN SD SD SD SD SD SD SD SD SD SD SD SD SD	17	2358	08/14/99	33	98	3.6					
08/14/99 47 36 36 08/14/99 40 36 36 08/14/99 53 36 08/14/99 53 36 08/14/99 40 36 MiN MAX MEAN SD SD SD SD SD SD SD SD SD SD SD SD SD	18	2358	08/14/99	33	36	3.6					
08/14/99 73 36 36 08/14/99 20 36 36 08/14/99 53 36 08/14/99 40 36 MiN MAX MEAN SD SD SD SD SD SD SD SD SD SD SD SD SD	19	2358	08/14/99	4.7	36	10.0					
08/14/99 40 36 36 08/14/99 20 36 36 08/14/99 53 36 36 08/14/99 40 36 MIN MAX MEAN SD SD SD SD SD SD SD SD SD SD SD SD SD	20	2358	08/14/99	73	36	218					
06/14/99 20 36 36 06/14/99 53 36 36 06/14/99 40 36 MiN MAX MEAN SD SD SD SD Transuranc DCGL _W	21	2358	08/14/99	40	36	8.9					
08/14/99 53 36 36 08/14/99 4.0 36 Min Max Mean SD SD Transuranc DCGL _W	22	2358	08/14/99	20	36	2.3					
08/14/99 40 36 MIN MAX MEAN SD Transuranc DCGL _W	23	2358	08/14/99	53	36	12.7					
MIN MAX MEAN SD Transuranc DCGL _W	24	2358	08/14/99	4 0	36	6.8					
MAX MEAN SD Transuranc DCGL _W					NIW	-8.2					
MEAN SD Transuranc DCGL _W					MAX	40 0					
SD Transuranic DCGL _W					MEAN	8 9					
Transuranic DCGL _w					SD	88					
					Transuranic DCGL _w	100					

Survey Unit 77928 Building 779 Smear Results

Smear Location		Sme	Smear Results		
Number	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm ²)	VQW
~	1160	8/16/99	0.0		
2	814	9/2/99	0.5	4 0	4 t
3	1160	8/16/99	0.5	2 2	0 7
4	1160	8/16/99	0.0		1
2	1160	8/16/99	0.0		1
9	1160	8/16/99	0.5	7 0	4 4
7	1160	8/16/99	00		4
80	1160	8/16/99	00		4
6	1160	8/16/99	0.5	000	4
10	1160	8/16/99		6-6	4 7
11	1160	8/16/99	0.0	00,	41
12	1160	8/16/99	00	000	4
13	1160	8/16/99	00		4
14	1160	8/16/99			4 1
15	1160	8/16/99		00	41
16	1160	8/18/00	000	0.0	4 1
17	1160	0/10/39	000	0 0	41
18	1160	0/10/99	0.0	0 0	4 1
200	1460	8/16/99	0 0	0 0	41
200	1160	8/16/99	0.5	15	41
27	1160	8/16/99	0.0	0 0	41
20	1160	8/16/99	0.0	0 0	41
23	1160	8/16/99	0.0	0.0	41
200	1100	8/16/99	0.0	0 0	41
1.7	0011	8/16/99	0.0	0 0	4 1
			MIN	0.0	
			MAX	15	
			MEAN	0.4	
4			SD	0.7	
			Transuranic DCGL _w	20	

	TRANSURANIC TOTAL (dpm/100cm²)	DCGL _w =100				0.4				0.0					2.0					6 0					3.4					2.2				1 0
	URANIUM TOTAL (dpm/100cm²)	DCGL _w =5000		3.0				£ ()					16 6					11.5					224 0				323.2					43.7		
le Results	ESTIMATED MDA	(apm/100cm ⁻)	0.5	0.8	13	000	000	00	00	00	03	0.4	90	0.8	0 8	10	0.7	10	16	11	4.7	58	84	2	55	96	77	165	9.1	18	11	60	11	38
Survey Unit 77928 Building 779 Paint/Solid Media Sample Results	INDIVIDUAL NUCLIDE	1 1	8 0	11	00	1 6	- 0	010	0.0	0 0	59	60	10.2	00	13	4 /	9 -	51	00	80	11/3	151	91 /	2 - 0	154 4	69	1618	55	0.0	191	2.4	22.2	12	-02
nt/Solid I	SURFACE	40				40	- - -	_1	L j		6					-⊥				-	94				40	I			L,	9		L		1
779 Paı	WEIGHT	15 83				0 15	2				10 29		_		10 70	2				105.05	C7 CO			-	278 27	-	-			29 55				
guiplir	MDA (pCi/q)	0 032	0 040	0 057	0 098	0 035	0 043	0 061	0 088	0 045	0 038	900	0 000	200	0 000			2000	0000	000	2000	0.00	0.071	0 039	0 067	0 040	0 032	6900	0 038	0 072	0 043	4000	150	25.
928 Bı	DCI/G	0 083	0 059	0 078	0030	-	-	—	0 143	0 033	0 067	1 150	0.054	0 173	0 205	0.007	0 320	0 003	0 050	0 000	0 106	0 645	6000	0 015	0 645	0 029	9290	0 023	000	0 753	0 034			2000
ey Unit 77	NUCLIDE	U-233/234	U-235	U-238	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-238	Pu-239/240	Am-241	11-233/234	U-235	11-238	Pu-239/240	Am-241	11-233/234	11-235	11-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	PU-239/240	Am-241	U-233/234	0-233	Pu-239/240	Am-241	11711111
Surv	SITE SAMPLE ID	001 001				002 001				700 000	100 000			_	004 001	-				005 001					006 001					007 001				
	SAMPLE LOCATION NUMBER	_				2				c	?			•	4					c)				9					_				
	LOCATION DESCRIPTION	Wall 8				Wall 8				Wall 1	-				Wall 1		_			Floor					Floor				7 17 17	wall 1				

	TRANSURANIC TOTAL (dpm/100cm²)	DCGL _W =100				0 0					5.8					5.4					0 6					18					16				0.5
	URANIUM TOTAL (dpm/100cm²)	DCGL w=5000		80.4					103 2					262 1					49 5					37.9					36.0				17.7		
le Results	ESTIMATED MDA	(uppul roocili)	25	20	24	22	31	39	65	7.8	12.4	108	7.4	5.9	159	65	13	16	23	30	14	23	14	11	2.1	14	7.6	16	5 6	67	00		7.7	12	2.0
Survey Unit 77928 Building 779 Paint/Solid Media Sample Results	INDIVIDUAL NUCLIDE	27.0	3.7	39.4	00	00	46 0	43	52.9	28	00	1196	13 7	1288	0.6	4 8	22.7	2 9	23 8	90	0 0	17.9	36	16.5	0.7	11	801	46	203	0 0	800	17	7 8 /	0.5	0.0
nt/Solid	SURFACE AREA (m²)	V	?	•			40				ļ	9		1_			40					40				Ç	- 1				40	?	<u> </u>		
779 Pai	WEIGHT (g)	66 34	- - - 	_			107 66	_			747	71241					41 52					36 21				27 80	60				32 07				
guiplii	MDA (pCi/g)	0.035	0 044	0 035	0 042	0 039	0 034	0 042	0 0 0 0	400	45 0	0000	040	0 032	000	0 035	0.036	0 044	0 063	0 083	0 039	0 075	0 044	0.036	6000	0 040	010	0 040	0 080	0 040	0 034	0.042	0 034	0 045	0 071
928 Bu	pCi/g	0.654	0 065	0690	0000	000 0	0 497		0 571		0000	0 040	1000	C69 0	3 6	0 026	0 030	0 082	7990	8100	0000	0 5/4	0 115	679 0	0 023	0 034	143	0 629	0030	0 018	0 298	0.061	0 284	0 017	0000
ey Unit 77	NUCLIDE	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Am 241	11-233/234	11-235	2220	0-230 Pii-230/240	A 2007-10	Am-241	0-233/234	0-235	U-238	ru-239/240	Am-241	U-233/234	0-235	0-238	ru-239/240	11-233/234	11.235	U-238	Pu-239/240		U-233/234	U-235	\top	합	Am-241
Surv	SITE SAMPLE ID	008 001					009 001			-	040 004	200				777			-			100 210			•	013 001		-1	•	-	014 001	•	•	-	
	SAMPLE LOCATION NUMBER	œ					တ				40	2				77	=				,	7				13	!				4				
	LOCATION DESCRIPTION	Pedestals					Floor				Floor	 } -		_		A lic/M	0 0				011701	Mall o				Wall 4					Wall 5				

Survey Unit 77928 Building 779 Paint/Solid Media Sample Results

	_			- T					_
TRANSURANIC TOTAL (dpm/100cm²)	DCGL w=100								36
URANIUM TOTAL (dpm/100cm²)	DCGL w=5000				56.5				
ESTIMATED MDA	((monor mide)	2.0		25	42		24	3 5	67
INDIVIDUAL NUCLIDE	(abun soons)	17.9		28	35.8	,	2.7	0	0
SURFACE	, , , , , , , , , , , , , , , , , , , ,	40	_			_			
WEIGHT	(6)	66 17							
MDA (pCt/q)	,	0 036		0 044	0 074		0.043	0 0 1 6 0 0 4 4	
DCi/d	,	0.315	0,00	0 043	0 629	010	0.040	0 0 16	
NUCLIDE	100,000	0-233/234	100	0-235	U-238	D1. 230/240	r u-239/240	Am-241	
SITE SAMPLE 1D	700 170	100 610							
SAMPLE LOCATION NUMBER	15	<u>.</u>	_			_			
LOCATION DESCRIPTION	A HOLVI	CIBA	_						

Z	0.3	0 0
MAX	323 2	5.8
MEAN	84 4	2.2
SD	101 7	2.1
DCGL _w =	5000	100

ATTACHMENT M Survey Unit 77929 Data Summary

SURVEY UNIT 77929 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGL_{w=}

>75% and <100% of DCGL_{W=}

Greater Than or Equal to DCGL_w=



Survey Unit 77929 Data Summary

Total Surface Activity Measurements	Activity Mea	surements	Remova	ble Activity	Removable Activity Measurements
	17	21		17	21
	Number Required	Number Obtained		Number Required	Number Required Number Obtained
N	45	dpm/100 cm ²	Z	-03	dpm/100 cm²
MEAN	25 9 7 5	dpm/100 cm ² dpm/100 cm ²	MEAN	27	dpm/100 cm ² dpm/100 cm ²
STD DEV	84	dpm/100 cm ²	STD DEV		dpm/100 cm ²
TRANSURANIC DCGL _W	100	dpm/100 cm²	TRANSURANIC DCGLw	20	dpm/100 cm²
		Media Sa	Media Sample Activity	_	
	Media Samples	17 Number Required	18 Number Obtained		
Total	Total Uranium Results	\$]	Fi	Total Transuranic Results	c Results
NW	0.5	dpm/100 cm ²	M	0.1	dpm/100 cm ²
MAX	6.1	dpm/100 cm ²	MAX	60	dpm/100 cm ²
MEAN	2.0	dpm/100 cm ²	MEAN	0.4	dpm/100 cm ²
SID DEV	13	dpm/100 cm²	STD DEV	0.2	dpm/100 cm²
DCGLw	2000	dpm/100 cm²	DCGLw	100	dpm/100 cm ²

Survey Unit 77929 Building 779 Total Surface Contamination Results

NIA 23			Total Surface Activit	tivity Survey							
1194 2368	Meter Model		NE Electra w/ DP6 Probe	6				Qualit	Quality Control Survey	Survey	
1,022,99	Instrument #	1194	2358	Wild	Local Are:	a Bkgd (cpm)	NE	NE Electra w/ DP6 Probe	9	Local Area	Local Area Blood (com)
Total Surface Activity Measurements Total Surface Activity Measurements Total Surface Activity Measurements	Cal Due Date	10/22/99	1/19/00			23	2349	N/A	N/A		14
Total Surface Activity Measurements Note of the control of the	Efficiency (c/d)	0 221	0 220	N/A			12/24/99	N/A	N/A		
Serial # Date (cpm) MDA (dem/100 cm²) (dem/100 cm²) (dem/100 cm²) 1194 08/25/99 47 34 108 1194 08/25/99 73 34 109 2358 08/25/99 47 34 109 2358 08/25/99 13 34 45 2356 08/25/99 27 34 14 2356 08/25/99 20 34 14 2356 08/25/99 20 34 14 2356 08/25/99 20 34 14 2356 08/25/99 20 34 14 2356 08/25/99 20 34 14 2356 08/25/99 20 34 14 2356 08/25/99 27 34 109 2358 08/25/99 47 34 109 2358 08/25/99 47 34 109 2358 08/25/99 47 </td <td></td> <td></td> <td>Total Surface A</td> <td>NA CALL</td> <td></td> <td></td> <td>0 224</td> <td>N/A</td> <td>N/A</td> <td></td> <td></td>			Total Surface A	NA CALL			0 224	N/A	N/A		
Serials Date (cpm) MDA (cpm/100 cm²) (cpm/100 cm²)	Sample Location			Meas (rements			Quality Co	ontrol Mea	Quality Control Measurements	
1194 08/25/99 47 34 108 2386 08/25/99 47 34 109 2386 08/23/99 47 34 109 2386 08/23/99 13 34 45 2386 08/23/99 27 34 18 2386 08/23/99 20 34 14 2386 08/23/99 20 34 14 2386 08/23/99 20 34 14 2388 08/23/99 20 34 14 2388 08/23/99 20 34 14 2388 08/23/99 27 34 109 2388 08/23/99 27 34 109 2388 08/23/99 47 34 109 2388 08/23/99 47 34 109 2388 08/23/99 47 34 109 1184 08/23/99 47 34 109	Number	Serial #	Date	(cbm)	MDA (dpm/100 cm²)	(dom/100 cm²)				MDA (dpm/100	
1194 004/2699 73 34 10.8 2386 004/2399 47 34 10.9 2386 004/2399 13 34 4.5 2386 004/2399 27 34 1.8 2386 004/2399 20 34 1.4 2386 004/2399 20 34 1.4 2386 004/2399 20 34 1.4 2388 004/2399 20 34 1.4 2388 004/2399 20 34 1.4 2388 004/2399 20 34 1.4 2388 004/2399 20 34 1.4 2388 004/2399 20 34 1.0 2388 004/2399 20 34 1.0 2388 004/2399 47 34 10 2388 004/2399 47 34 10 2388 004/2399 47 34 10 <td>-</td> <td>1194</td> <td>08/25/99</td> <td>4.7</td> <td></td> <td>(alma con ando)</td> <td>Serial #</td> <td>Date</td> <td>(cpm)</td> <td>cm²)</td> <td>(dpm/100 cm²)</td>	-	1194	08/25/99	4.7		(alma con ando)	Serial #	Date	(cpm)	cm²)	(dpm/100 cm²)
2356 09/23/99 47 34 10.9 2356 09/23/99 1.3 34 4.5 2356 09/23/99 2.7 34 1.6 2356 08/23/99 2.0 34 1.4 2356 0.08/23/99 2.0 34 1.4 2356 0.08/23/99 2.0 34 1.4 2356 0.08/23/99 2.0 34 1.4 2356 0.08/23/99 2.0 34 1.4 2356 0.08/23/99 2.0 34 1.4 2356 0.08/23/99 2.7 34 1.6 2356 0.08/23/99 2.7 34 1.0 2358 0.08/23/99 2.7 34 1.0 2358 0.08/23/99 4.7 34 1.0 2358 0.08/23/99 4.7 34 1.0 1194 0.02/23/99 4.7 34 1.0 1194 0.02/23/99 4.7	2	1194	08/25/99	73	2	10.8					
2356 08/23/99 13 34 45 2358 08/23/99 27 34 16 2358 08/23/99 27 34 16 2358 08/23/99 20 34 14 2358 08/23/99 20 34 14 2358 08/23/99 20 34 14 2358 08/23/99 20 34 14 2358 08/23/99 27 34 18 2358 08/23/99 27 34 10 2358 08/23/99 27 34 10 2358 08/23/99 47 34 10 2358 08/23/99 47 34 10 2358 08/23/99 47 34 10 2358 08/23/99 47 34 10 1194 08/23/99 47 34 10 1194 08/25/99 47 34 10	3	2358	08/23/99	47	3 2	22.6	2349	08/26/99	20	28	2.7
2358 06/23/99 27 34 45 2358 06/23/99 80 34 18 2358 06/23/99 80 34 14 2358 06/23/99 20 34 14 2358 06/23/99 20 34 14 2358 06/23/99 20 34 14 2358 06/23/99 27 34 14 2358 06/23/99 27 34 16 2358 06/23/99 27 34 10 2358 06/23/99 47 34 10 2358 06/23/99 47 34 10 2358 06/23/99 47 34 10 1194 06/23/99 47 34 10 1194 06/23/99 47 34 10 1194 06/25/99 47 34 10 1194 06/25/99 47 34 10	4	2358	08/23/99		\$ 2	109					
2356 08/23/99 80 34 75 2356 08/23/99 20 34 77 2356 08/23/99 20 34 77 2356 08/23/99 20 34 77 2356 08/23/99 20 34 14 2356 08/23/99 20 34 14 2356 08/23/99 27 34 14 2356 08/23/99 27 34 16 2356 08/23/99 27 34 10 2356 08/23/99 27 34 10 2356 08/23/99 47 34 10 2356 08/23/99 47 34 10 2356 08/23/99 47 34 10 2356 08/23/99 47 34 10 1194 08/23/99 47 34 10 1194 08/25/99 47 34 10	5	2358	08/23/99	27	200	4.5					
2356 08/23/99 20 34 14 2366 08/23/99 40 34 77 2366 08/23/99 20 34 77 2366 08/23/99 20 34 14 2366 08/23/99 20 34 14 2366 08/23/99 27 34 18 2366 08/23/99 47 34 109 2368 08/23/99 47 34 109 2358 08/23/99 67 34 109 2358 08/23/99 47 34 109 1194 08/23/99 47 34 109 1194 08/25/99 47 34 108 1194 08/25/99 40 34 77 MAX 25 34 108 MAX 25 34 108 84 77 34 108 84 77 34 108<	9	2358	08/23/99	80	5 8	18					
2368 06/23/99 40 34 2368 08/23/99 20 34 2358 08/23/99 20 34 2356 08/23/99 27 34 2356 08/23/99 27 34 2356 08/23/99 27 34 2356 08/23/99 67 34 2356 08/23/99 67 34 2356 08/23/99 67 34 1 2356 08/23/99 47 34 1 1194 08/23/99 47 34 1 1194 08/25/99 47 34 1 1194 08/25/99 40 34 1 MAX 22 MIN 4 34 1 1194 08/25/99 40 34 1 1194 08/25/99 40 34 7 MAX 22 22 22 24 24 1194 </td <td>7</td> <td>2358</td> <td>08/23/99</td> <td>2.0</td> <td>5 8</td> <td>25.9</td> <td>2349</td> <td>08/26/99</td> <td>33</td> <td>28</td> <td>8.5</td>	7	2358	08/23/99	2.0	5 8	25.9	2349	08/26/99	33	28	8.5
2368 08/23/99 20 34 2358 08/23/99 20 34 2358 08/23/99 27 34 2358 08/23/99 27 34 2358 08/23/99 47 34 2358 08/23/99 47 34 2358 08/23/99 47 34 2358 08/23/99 47 34 1194 08/23/99 47 34 1194 08/25/99 47 34 1194 08/25/99 40 34 1194 08/25/99 40 34 1194 08/25/99 40 34 1194 08/25/99 40 34 1194 08/25/99 40 34 17 34 7 MAX 25 173 34 7 100 34 7 1194 08/25/99 40 34 10	8	2358	08/23/99	40	\$ 2	14					
2358 08/23/99 20 34 2358 08/23/99 27 34 2358 08/23/99 27 34 1 2358 08/23/99 20 34 1 2358 08/23/99 47 34 1 2358 08/23/99 47 34 1 2358 08/23/99 47 34 1 1194 08/23/99 47 34 1 1194 08/25/99 47 34 1 1194 08/25/99 47 34 1 1194 08/25/99 40 34 7 MAX 22 MRAN 22 MAX 22 SD 8 Transuranc DCSL 7 7	6	2358	08/23/99	2.0	3 3	7.7					
2358 08/23/99 27 34 2358 08/23/99 27 34 1 2358 08/23/99 20 34 1 2358 08/23/99 20 34 2 2358 08/23/99 67 34 2 2358 08/23/99 47 34 1 2358 08/23/99 47 34 1 1194 08/23/99 47 34 1 1194 08/25/99 47 34 1 MAX 27 34 1 MAX	9	2358	08/23/99	2.0	3	4					
2358 08/23/99 27 34 2358 08/23/99 47 34 2358 08/23/99 20 34 2358 08/23/99 67 34 2358 08/23/99 47 34 2358 08/23/99 47 34 1194 08/25/99 47 34 1194 08/25/99 47 34 MAX 34 34 MAX 1194 08/25/99 40 34 MAX SD SD Transurant DrCsi SD	=	2358	08/23/99	27	\$ 2	14					
2358 08/23/99 47 34 2358 08/23/99 20 34 2358 08/23/99 67 34 2358 08/23/99 47 34 2358 08/23/99 47 34 1194 08/23/99 47 34 1194 08/25/99 47 34 1194 08/25/99 47 34 MAX 8D 8D 8D Transuranc Dicci. SD SD	12	2358	08/23/99	, ,	3	18					
2358 08/23/99 20 34 2358 08/23/99 67 34 2358 08/23/99 47 34 2358 08/23/99 47 34 1194 08/25/99 47 34 1194 08/25/99 40 34 MAX MAX 8D Transurant Dictal SD	13	2358	08/23/99	72	38	18					
2358 08/23/99 67 34 2358 08/23/99 67 34 2356 08/23/99 47 34 2356 08/23/99 47 34 1194 08/25/99 47 34 1194 08/25/99 40 34 MEAN MEAN SD Transition DC3. SD Transition DC3.	14	2358	08/23/99		75	10.9					
2356 08/23/99 47 34 2356 08/23/99 47 34 2356 08/23/99 27 34 1194 08/25/99 47 34 1194 08/25/99 40 34 MEAN Transurant DCS	15	2358	08/23/00	0.7	34	14					
2358 08/23/99 47 34 2358 08/23/99 27 34 1194 08/25/99 47 34 1194 08/25/99 47 34 1194 08/25/99 40 34 MAX MAX Tantsurant Dict.	16	2358	08/23/89	9	R :	200					
2358 08/23/99 27 34 1194 08/25/99 47 34 1194 08/25/99 40 34 1194 08/25/99 40 34 MEAN MAX MEAN Transurant DCS	17	2358	08/23/00	:	Z,	109					
1194 08/25/99 47 34 1194 08/25/99 40 34 MIN MAX MEAN Tansstrant DOCAL	18	2358	08/23/00	6 6	34	10.9					
1194 08/25/99 47 34 1194 08/25/99 40 34 MIN MAX MEAN SD Transurant DCS	19	1194	08/25/00	17	8	18					
1194 08/25/99 40 34 MIN MAX MEAN SD SD Transurant DCS.	20	1194	8870200	47	8	10.8					
MIN MAX MEAN SD SD Transurant DCS.	2	100	08/22/88	47	8	10.8					
		134	08/25/99	40	34	7.7					
					MIN	45					
$\perp \downarrow$					MAX	25.9					
1					MEAN	7.5					
					SD	84					
_					Transuranic DCGL _w	100					

Survey Unit 77929 Building 779 Smear Results

Smear Location		Sme	Smear Results		
Number	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm ²)	MOA
-	814	8/25/99		0.3	1
2	814	8/25/99	00	200	00
3	814	8/25/99	00		0 0
4	814	8/25/99	0.50	200	000
5	814	8/25/99		7 0	000
9	814	8/25/99		20,0	69
7	814	8/25/99		7 0	000
8	814	8/25/99	000	50-	00
6	814	8/25/99		200	60
10	814	8/25/00		5 D-	6.5
11	1407	8/25/99	000	-03	65
12	1407	8/25/99		٠ ٥	65
13	1407	8/25/00		20,0	65
14	1407	0/25/00	0.0	-03	6.5
15	1407	66/27/0	0.0	-0 3	65
196	1407	8/25/99	0.0	-03	65
12	1407	8/25/99	0.5	12	65
18	1407	8/25/99	0.0	-03	65
200	1407	8/25/99	00	-03	65
200	1407	8/22/88	0.5	12	65
27	140/	8/25/99	10	2.7	65
17	140/	8/25/99	0.0	-0 3	
			Z	-03	
			MAX	27	
			MEAN	0 1	
1			SD	80	
			Transuranic DCGL _w	20	

	TRANSURANIC TOTAL (dpm/100cm²)	DCGL _w =100				200	60				2					٠,٥					0.3					0 1					0.3					2 0
	URANIUM TOTAL (dpm/100cm²)	DCGL w=5000		1 5					3.2					2.0					8 0					0.5					0.7					2.1		
le Results	ESTIMATED MDA	0.4		0.4		0.0	00	00	0.1	0 1	01	02	02	0.2	0 1	02	02	0.2	0.2	0.2	03	0.1	0 1	0 1	0 1	0 1	0.1	0.1	0.1	0.1	0 1	03	0.4	0.3	03	0.2
t 77929 Building 779 Paint/Solid Media Sample Results	INDIVIDUAL NUCLIDE	0.8	0 1	90	00	000	14	0.2	17	00	03	10	0.1	10	00	02	0.4	0.1	0.4	0 0	03	0.3	0.0	0.2	00	01	0.4	0 0	0.3	0.0	0.3	0.7	0 0	14	03	0.2
nt/Solid I	SURFACE AREA (m²)	40		٠	1		40	!	J	<u> </u>		40	.	L., .	L	L	40	L	نيا			40		L. I			94	_!				40				
779 Pai	WEIGHT	7 58					2 89					4 02					5 25					3 33					7.87					9 28				
ildıng 7	MDA (pCi/q)	6900	0900	0 067	0 034	0 041	0 049	0 052	0 049	0 046	0 042	0 053	0 053	0 047	0 032	0 051	0 048	0 044	0 039	0 040	0 058	0 047	0 043	0 035	2000	1000	2000	0.037	0.037	0 025	0 031	0 042	0 045	0 038	0030	0000
929 Bu	DCI/d	۳	0 022	0 093	-0 001	0 044	0 550	0 063	069 0	-0 003	0 108	0 275	0 025	0 277	900 0	690 0	0 080	0 015	0 082	-0 002	0900	0 094	0.012	0.074		1000	7010	CIOO	0 118	0000	0 104	0 083	0 004	0 1/0	0 038	0.021
Survey Unit 77	NUCLIDE	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	PU-239/240	Am-241	U-233/234	U-235	0-238	Am 244	11 222/224	402/02/04	0-235	0-238	PU-239/240	Am-241	U-233/234	U-235	0-238	ru-239/240	AM-241
Surv	SITE SAMPLE ID	001 001					002 001				-	003 001				-	004 001					005 001				000 004						007 001				
	SAMPLE LOCATION NUMBER	-					7					ო					4					က				ď	-				\ \ \ \	_				
	LOCATION DESCRIPTION	Room 166,	Wall 4				Room 166,	Wall 2				Room 162,	Doorway				Koom 162,	Ceiling				K00m 162,	Celling			Room 162	Couling.	Sulla Sulla		-	007	Koom 162,	Floor			

	TRANSURANIC TOTAL (dpm/100cm²)	DCGL _w =100				20	0.0				2.0					6 0					90					0.2					0.2					0.4
	URANIUM TOTAL (dpm/100cm²)	DCGL _w =5000		80					60					2.5					3.1					11					2.9					13		
le Results	ESTIMATED MDA	(apm/100cm)	0 0	000	00	030	200	4 6	0.2	0.2	0.5	0.2	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0 1	03	0.2	02	0.2	0.2	0.2	03	0.4	0.2	03	0.5	03	03	0.2	0.2	0.3
Survey Unit 77929 Building 779 Paint/Solid Media Sample Results	INDIVIDUAL NUCLIDE	(apini 100cm)		90	0.1	03	0.0	000	0.5	00	0.7	10	0 0	15	0.3	90	14	0 1	16	0.2	0.4	0.4	0.0	2.0	0 0	0.2	14	0.0	15	0.1	0.2	90	0.2	0.5	00	0.4
nt/Solid	SURFACE	40	2			•	40	}	-	•		40		L			40					40					40					4 0				
779 Pai	WEIGHT	582					7.56	— } ·		_		5 96			-		2 05	•				6 44					883					2 20				
llding	MDA (DCI/d)	0 059	0 054	0 041	0 037	0 063	0 056	0 051	0 035	0 034	0 080	0 048	0.053	0 028	003/	0.037	0 044	0 039	0 039	0 021	690 0	0 044	0 044	0 038	0 041	0 042	0.043	0 054	0.028	0 036	0 061	4000	0.043	0 028	0 036	0 049
929 Bı	DCI/a	0 062	900 0-	0 122	0 012	0 055	0 062		0 083		0 108	0 189	9000	0 290			0 320		0360		0 082		-0 002	0 123	0003		000	-0.003	197	/00 0	0 024	001.0	0 027	00/2		6000
ey Unit 77	NUCLIDE	U-233/234	U-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	Pu-239/240	Am-241	0-233/234	0-235	U-238	1 U-239/240	AM-241	0-233/234	0-235	U-238	Pu-239/240	Am-241	U-233/234	U-235	U-238	PU-239/240	Am-241	1.005	0-235	0-238	ru-239/240	Am-241	0-233/234	0-735	U-238	ru-239/240	Am-241
Surv	SITE SAMPLE ID	008 001					009 001					010 001				700,770	100 110					012 001					100 510				7007	100 410				
	SAMPLE LOCATION NUMBER	8					6				,	2				**	=				,	12				42	2				**	<u> </u>				
	LOCATION DESCRIPTION	Room 162,	Ceiling				Room 162,	Ceiling			70000	הסטוח וסב,	500			Doom 160	לסו ווססע	1001				K00M 162,	Celling			Doom 162	Couling.	Celling			Dog 162	יייוסט,	Sulla			

Survey Unit 77929 Building 779 Paint/Solid Media Sample Results

TRANSURANIC TOTAL (dpm/100cm²)	DCGL w=100					α C						9.0					0.0						V O
URANIUM TOTAL (dpm/100cm²)	DCGL w=5000			6.1					2.5						2.1						91		
ESTIMATED MDA	(dpm/100cm²)	0.5	03	03	03	0.4	0.5	90	0.5	0.3	03	000	200	03	0.2	0.2	03	0.4	0.3		100		40
INDIVIDUAL	(apm/nucm)	67	0.3	3.4	0.1	0.7	11	0.2	12	0 1	0.7	10	0 4		0	00	0.2	0.7	0 1	80	00		4 0
SURFACE	(III) V	1					40				L	40			1			40	l	L			
WEIGHT) XX	† 5		-			11 35	_				8 72						200					
MDA (pCI/q)	0.063	200	7400	0.043	0 040				0.048	0 031	0 033	0 046	0 037	0.004	0000	0000	0 0 0	6C0 0	0 047	0 065	0 039	0.067	3
DCi/a	0 350	0000	2000	_	_	0 100	0 1 10	9100	81.0	0 013	0 073	0 133	0 015	0 128	000		0 020	co c	0 019	0 117	-0 002	690 0	
NUCLIDE	U-233/234	11-225	11 220	0-730	ru-239/240	Am-241	0-233/234	0-735	0-238	ru-239/240	Am-241	U-233/234	U-235	U-238	P11-239/240	Am-241	11 232/234	0-233/234	U-235	U-238	Pu-239/240	Am-241	
SITE SAMPLE ID	015 001					246.004	000					017 001					018 004	1000					
SAMPLE LOCATION NUMBER	15					36	2			-	!	1					18	2	_				
LOCATION DESCRIPTION	Room 162,	Wall 1				Room 162	Floor	2			000	NOOM 162,	Celling			_	Room 162	Calina	5				

MIN	0.5	0.1
MAX	6 1	60
MEAN	2.0	0.4
SD	13	0.2
DCGL _w =	5000	100

ATTACHMENT N Survey Unit 77949 Data Summary

SURVEY UNIT 77949 DATA

COLOR CODES:

Less Than or Equal to 75% of DCGL_w=

>75% and <100% of DCGL_w=

Greater Than or Equal to DCGLw=

Survey Unit 77949 Data Summary

MIN	Total Surface Activity Measurements	Activity Mea	surements	Remov	able Activity	Removable Activity Measurements	<u>8</u>
Number Required Number Obtained Number Obtained Number Obtained Number Obtained Number Obtained Number Required Number Obtained Number Obt		Å	86				
Number Required Number Obtained Number Required Number Obtained Mink		2	07		15	20	
156 dpm/100 cm² MAX MAX MAX MEAN	12.0	Number Required			Number Required	Number Obtained	
11 6 dpm/100 cm² MAX 2 7 11 6 dpm/100 cm² MEAN 0 4 13 3 dpm/100 cm² MEAN 0 4 13 3 dpm/100 cm² MEAN 0 4 10 0 dpm/100 cm² DCGL _W 10							
11 6 dpm/100 cm² MEAN 27	Z	-56	dpm/100 cm ²	Z	-03	dpm/100 cm ²	
11 6 dpm/100 cm² STD DEV 10	MAX	353	dpm/100 cm ²	MAX	2.7	dpm/100 cm ²	
13.3 dpm/100 cm² STD DEV 10	MEAN	116	dpm/100 cm ²	MEAN	0.4	dpm/100 cm ²	
Media Samples	STD DEV	13.3	dpm/100 cm ²	STD DEV	10	dpm/100 cm ²	
Media Samples							
Media Samples	TRANSURANIC DCGL _W	100	dpm/100 cm ²	TRANSURANIC	5	dpm/400 cm ²	
Media Samples Media Samples N/A N/A N/A Interest of the constant of t))	20		
Media Samples Media Samples NIA NIA Number Required Number Obtained Total Uranium Results Apm/100 cm² MIN In/A N/A Apm/100 cm² MAX N/A N/A Apm/100 cm² MEAN N/A N/A Apm/100 cm² STD DEV N/A N/A Apm/100 cm² STD DEV N/A							
Media Samples N/A N/A Total Uranium Results Apm/100 cm² MilN Total Transurant N/A dpm/100 cm² MAX N/A N/A dpm/100 cm² MEAN N/A N/A dpm/100 cm² MEAN N/A N/A dpm/100 cm² STD DEV N/A N/A dpm/100 cm² STD DEV N/A			Media Sal	mple Activity	. 1		
Number Required Number Obtained Total Transurant N/A dpm/100 cm² MIN N/A N/A dpm/100 cm² MEAN N/A N/A dpm/100 cm² STD DEV N/A N/A dpm/100 cm² STD DEV N/A		Media Samples	NA	N/A			
Total Transurani N/A dpm/100 cm² MIN N/A N/A dpm/100 cm² MAX N/A N/A dpm/100 cm² MEAN N/A N/A dpm/100 cm² STD DEV N/A N/A dpm/100 cm² DCGLw N/A			Number Required	Number Obtained	_		
Total Uranium Results Total Transurani N/A dpm/100 cm² MAX N/A N/A dpm/100 cm² MEAN N/A N/A dpm/100 cm² STD DEV N/A N/A dpm/100 cm² STD DEV N/A					7		
N/A dpm/100 cm² MIN N/A N/A dpm/100 cm² MAX N/A N/A dpm/100 cm² STD DEV N/A N/A dpm/100 cm² DCGLw N/A	Total	Uranıum Resu	ts 1	•	Total Transuran	ic Results	
N/A dpm/100 cm² MIN N/A N/A dpm/100 cm² MAX N/A N/A dpm/100 cm² MEAN N/A N/A dpm/100 cm² STD DEV N/A N/A dpm/100 cm² DCGLw N/A				•			
N/A dpm/100 cm² MAX N/A N/A dpm/100 cm² MEAN N/A N/A dpm/100 cm² STD DEV N/A N/A dpm/100 cm² DCGLw N/A	Z	N/A	dpm/100 cm ²	N	N/A	dpm/100 cm ²	
N/A dpm/100 cm² MEAN N/A N/A dpm/100 cm² STD DEV N/A	MAX	N/A	dpm/100 cm ²	MAX	A/A	dpm/100 cm ²	
N/A dpm/100 cm² STD DEV N/A N/A dpm/100 cm² DCGLw N/A	MEAN	N/A	dpm/100 cm ²	MEAN	N/A	dnm/100 cm ²	
N/A dpm/100 cm ² DCGL _W N/A	STD DEV	N/A	dpm/100 cm ²	STD DEV	N/A	dpm/100 cm ²	
N/A dpm/100 cm ² DCGL _W N/A	====						
	DCGL _w	N/A	dpm/100 cm ²	DCGLw		dpm/100 cm ²	

Survey Unit 77949 Building 779 Total Surface Contamination Results

		I otal Surface Activity	IVITY SURVEY				Qualit	Quality Control Survey	Survey	
Meter Model	_	NE Electra w/ DP6 Probe		Local Area	Local Area Bkgd (cpm)	III.V	NE Flectra w/ DP6 Pmhe		Local Area	Area Bland (com)
nstrument #	1265	N/A	ΑΝ	2	25	2358	N/A	A/N	Lucai Area	Daga (cpin)
Cal Due Date	3/2/00	N/A	N/A			1/19/00	Ą.V	V.Z		35
Efficiency (c/d)	0.213	N/A	N/A			0 214	ĄŻ	¥.		
!		Total Surface Activity Measurements	ctivity Measur	rements			Quality Co	ontrol Mea	Quality Control Measurements	
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Spiral R	ate C	land	MDA (dpm/100	(dpm(100 cm²)
-	1265	10/26/99	90	37	16.5)	(magaille (mgb)
2	1265	10/26/99	27	37	60					
3	1265	10/26/99	47	37	10 3					
4	1265	10/26/99	33	37	38					
2	1265	10/26/99	80	37	25 9					
9	1265	10/26/99	33	37	3.8					
7	1265	10/26/99	2.0	37	2.4					
8	1265	10/26/99	08	37	25.9					
6	1265	10/26/99	29	37	19.7					
10	1265	10/26/99	13	37	56					
11	1265	10/26/99	13	37	56					
12	1265	10/26/99	53	37	13.2					
13	1265	10/26/99	33	37	3.8					
14	1265	10/26/99	63	37	32.0	2358	10/26/99	9.3	41	28.1
15	1265	10/26/99	10 0	37	35.3	2358	10/26/99	133	14	46.8
16	1265	10/26/99	7.3	37	22.6					
17	1265	10/26/99	2.0	37	2.4					
18	1265	10/26/99	28	37	29 1					
19	1265	10/26/99	33	37	38					
20	1265	10/26/99	2.7	37	60					
				NIW	56					
				MAX	35.3					
				MEAN	116					
				SD	133					
				Transuranic DCGL	400					

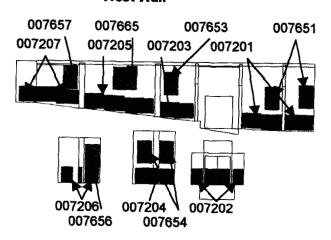
Survey Unit 77949 Building 779 Smear Results

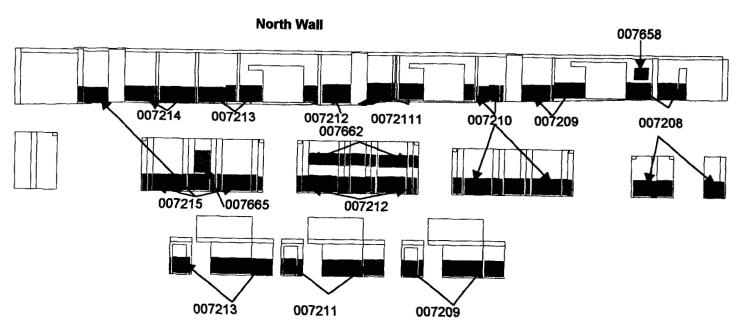
Smear Location		Эше	Smear Results		
Number	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm ²)	MDA
-	814	10/26/99	0.5	12	6.5
2	1407	10/26/99	00	-03	65
3	814	10/26/99	00	-03	65
4	1407	10/26/99	00	-03	6.5
2	814	10/26/99	00	-03	65
9	1407	10/26/99	0.5	12	65
7	814	10/26/99	00	-03	65
8	1407	10/26/99	00	-03	65
6	814	10/26/99	00	-03	65
10	1407	10/26/99	00	-03	
11	814	10/26/99	0.5	12	65
12	1407	10/26/99	0.5	12	
13	814	10/26/99	0 0	-03	65
14	1407	10/26/99	0.5	12	
15	814	10/26/99	00	-03	65
16	1407	10/26/99	0 0	-03	65
17	814	10/26/99	00	-03	
18	1407	10/26/99	10	27	
J.	814	10/26/99	0.0	-03	65
20	1407	10/26/99	10	27	65
			MIN	-03	
			MAX	2.7	
			MEAN	0.4	
			SD	10	
			Transuranic DCGL _w	20	

ATTACHMENT O Survey Unit Overlay Maps

Survey Unit 77907 B779 Exterior walls Map 1 of 1

West Wall

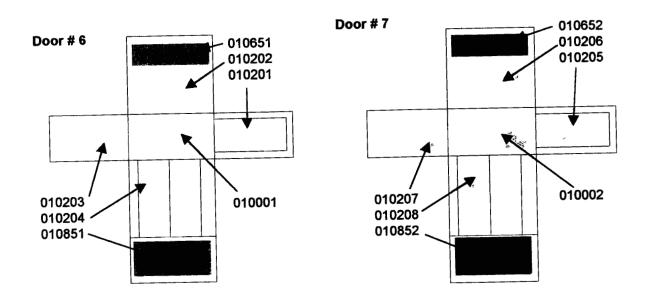


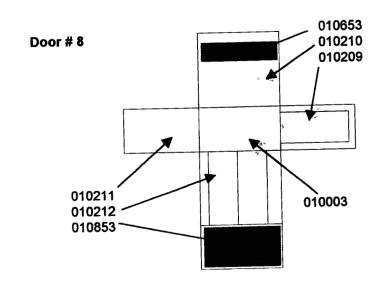


Attachment O Page 1 of 14

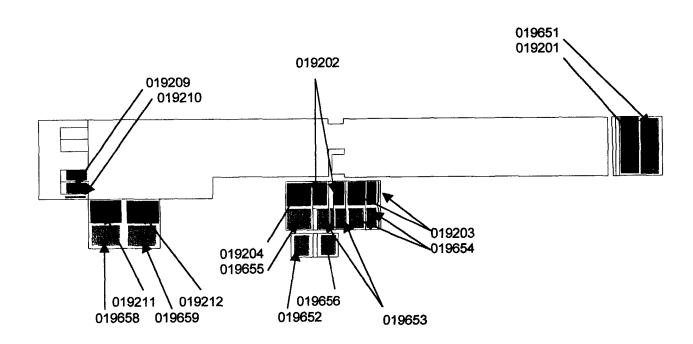
Survey Unit 77908 **B779 Exterior and dock walls** Map 1 of 1 008656 008655 008206 008205 008660 008659 008658 008657 008669 008209 008208 008207 008666 008664 008671 008670 008213 008215 008219 008661 008652 008672 008220 008663 008202 008653 008203 008212 \$3300 B33800 008665 008217 008216 008214 008211 008651 -008201

Survey Unit 77910 B779 North Wall Airlocks Map 1 of 1

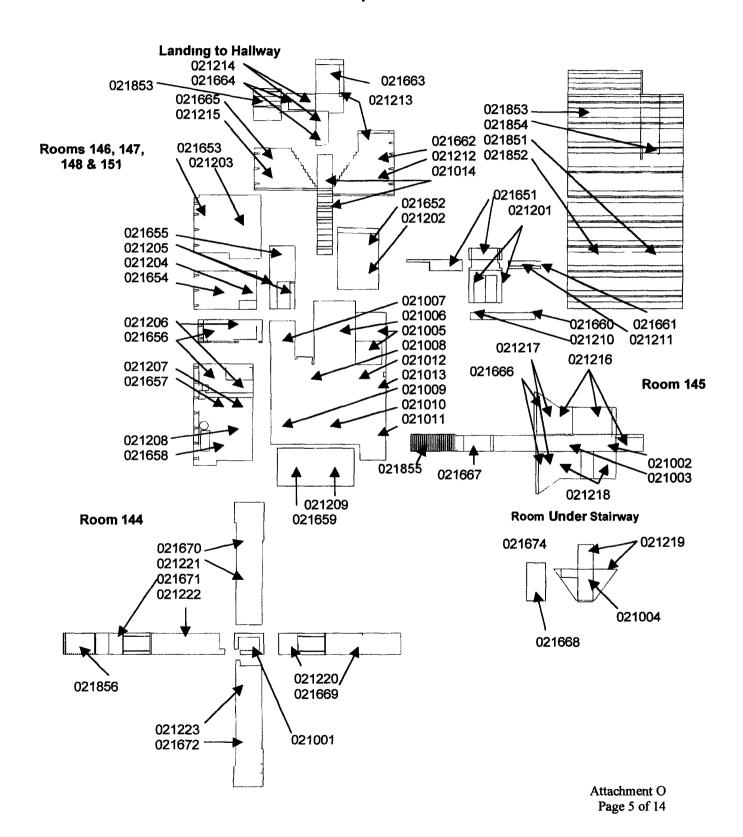




Survey Unit 77919 B779 Dock & Ramp (Walls Only) Map 1 of 1

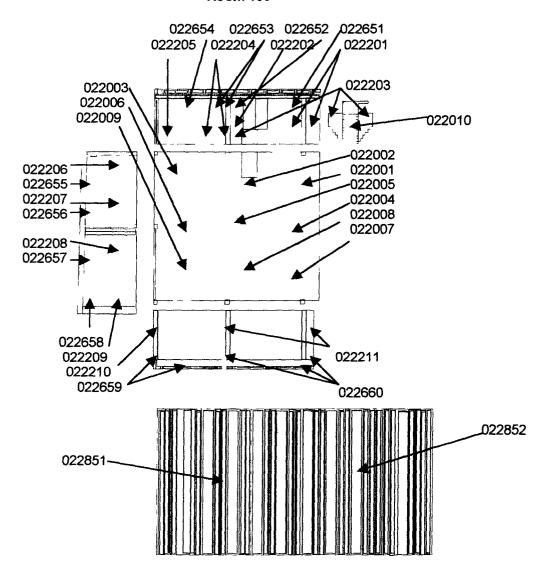


Survey Unit 77921 B779 Rooms 144, 145, 146, 147, 148 & 151 Map 1 of 1



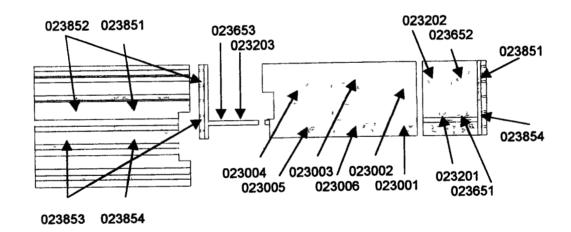
Survey Unit: 77922 B779 First Floor "A" Annex Room 150 Map 1 of 1

Room 150

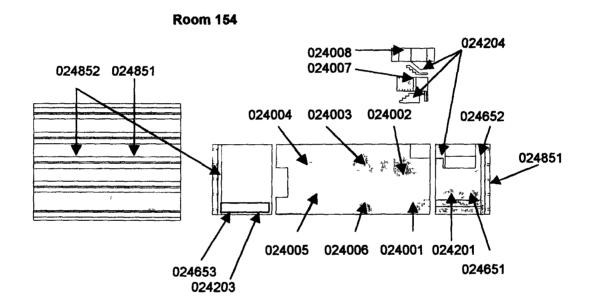


Survey Unit: 77923 B779 First Floor "A" Annex Room 152 Map 1 of 1

Room 152

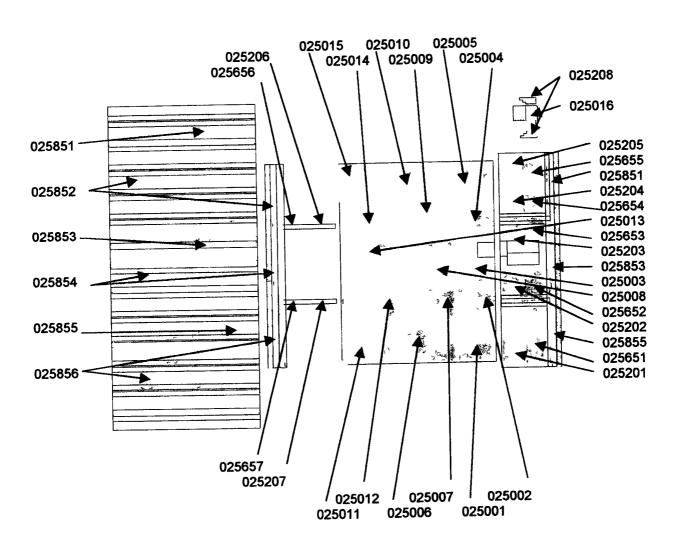


Survey Unit 77924 B779 First Floor "A" Annex Room 154 Map 1 of 1

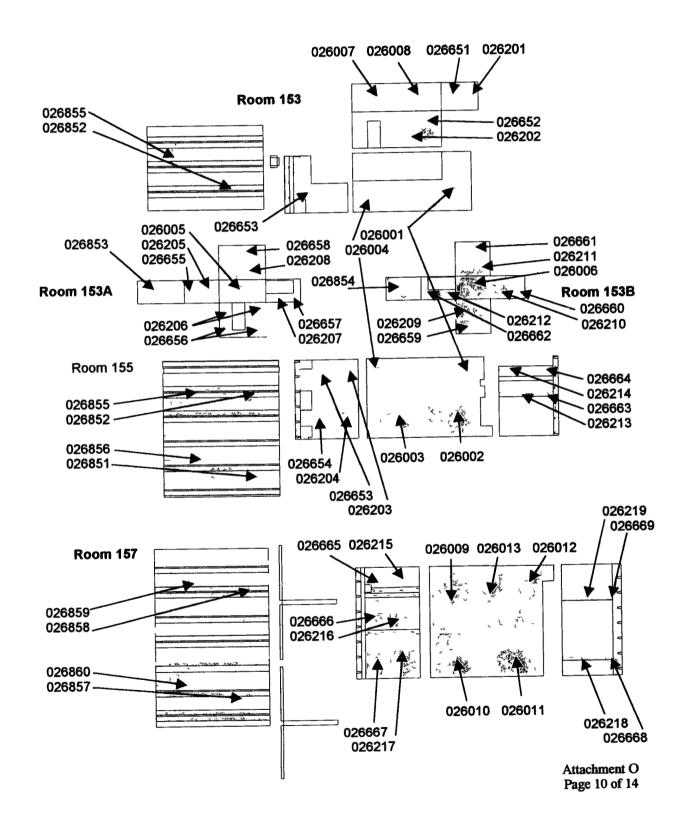


Survey Unit: 77925 B779 First Floor "A" Annex Rooms 156, 160 & 160A Map 1 of 1

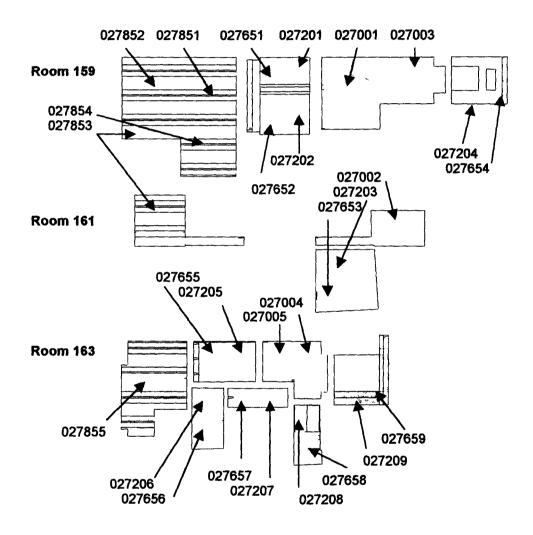
Rooms 156, 160 & 160A



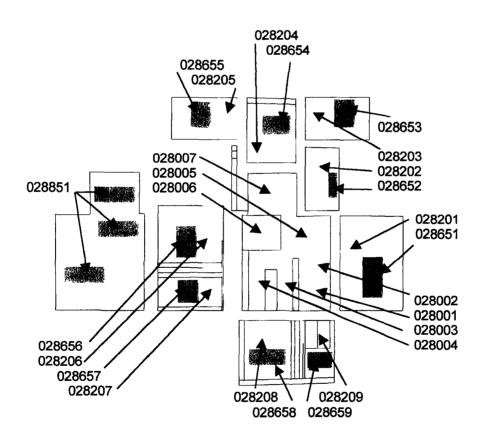
Survey Unit: 77926 B779 First Floor "A" Annex Rooms Map 1 of 1



Survey Unit: 77927 B779 First Floor "A" Annex Rooms 159, 161 & 163 Map 1 of 1

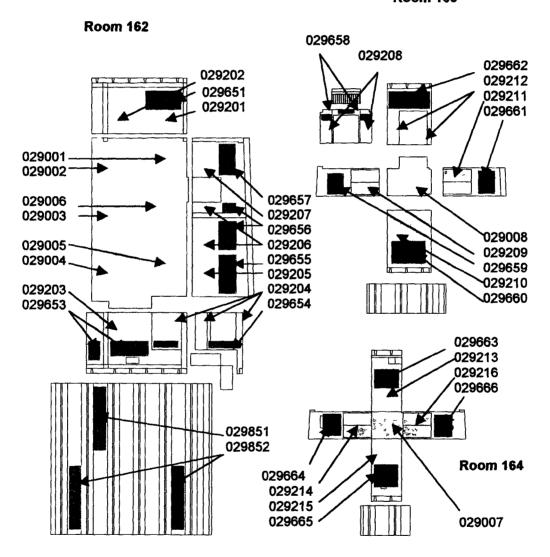


Survey Unit: 77928 B779 Rooms 163, 165, 167 & 167A Map 1 of 1

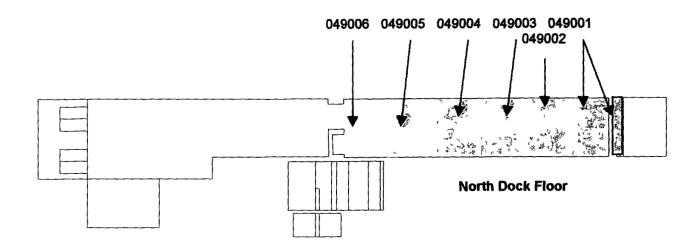


Survey Unit: 77929 B779 First Floor "A" Annex Rooms 162, 164 & 166 Map 1 of 1

Room 166



Survey Unit 77949 B779 North Dock Floor Map 1 of 1



ATTACHMENT P SCM/SIMS Quality Control Charts

168

QC Control Charts

The QC control charts are attached. The QC survey is to be distinguished from the daily source check as follows. The daily source check allows the survey technician to determine that the instrument is responding within acceptable values for total background subtracted counts using a radioactive source. The QC survey is used to continuously update the control charts. The control charts are used to determine the efficiency of each detector assembly, verify adequate system performance, and to observe trends that may indicate monitoring system problems.

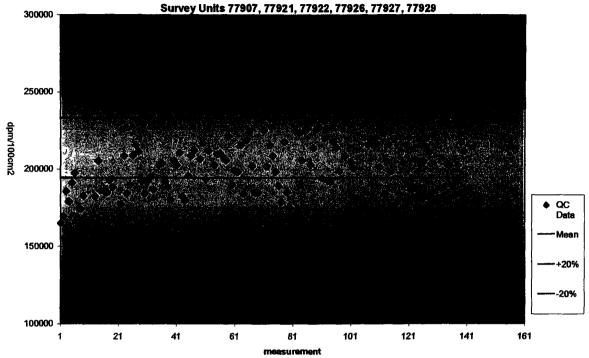
The control chart plots a mean of the Pu-238 source measurements (source strength = 194,400 dpm) It also shows the range of plus and minus 20% from the mean value A typical QC survey contains at least six measurements (or twelve, if a recount assembly is used), which consist of at least three pre survey QC measurements and three post survey QC measurements Additionally, every three hours, three (or six) more measurements are obtained during the survey

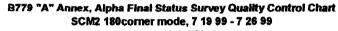
In a few cases, values have fallen outside of 20% from the mean Singular events outside the range are not considered failures in the measurement process provided that the other values are within the acceptable range. Single events outside the range are treated as normal statistical occurrences. In other words, if two out of the three QC measurements are within 20% of the mean, the QC survey is considered acceptable.

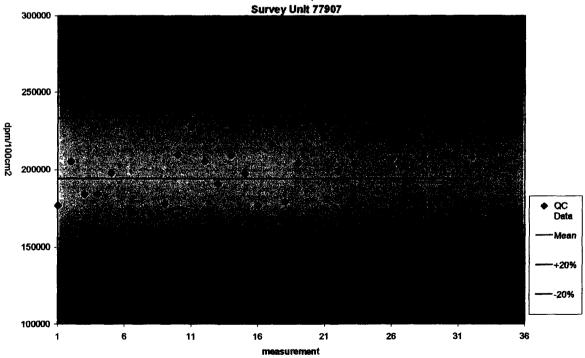
Two QC surveys failed resuling in the rejection of two of the 964 scan surveys that were performed in the "A" Annex. The rejected QC data is not reported on these charts

In conclusion, the following charts show no trends that would require re-survey of the "A" Annex final surveys

B779 "A" Annex, Alpha Final Status Survey Quality Control Chart SCM1 180corner mode, 7.27 99 - 9 17 99

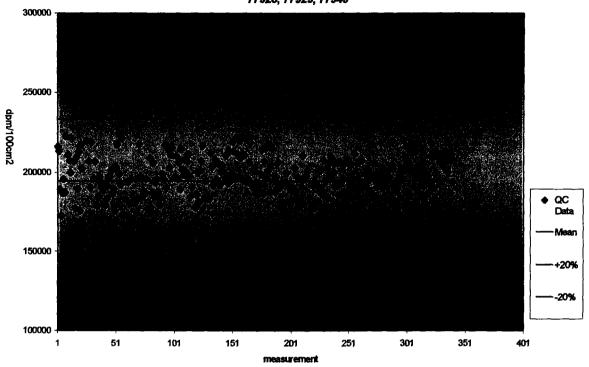






Attachment P Page 2 of 3

B779 "A" Annex, Alpha Final Status Survey Quality Control Chart SCM3 180comer mode, 8 13 99 - 10.27 99 Survey Units 77907, 77908, 77910, 77919, 77921, 77922, 77923, 77924, 77925, 77926, 77927, 77928, 77929, 77949



ATTACHMENT Q Data Quality Assessment

172

DATA QUALITY ASSESSMENT

1.0 INTRODUCTION

Data used in making management decisions for waste management remedial actions must be of adequate quality to support the decisions. Adequate data quality for decision-making is required by applicable RMRS and K-H corporate policies (RMRS, 1998, §6 4 and K-H, 1997, §7 1 4 and 7 2 2), as well as by the customer (DOE, RFFO, Order O 414 1, Quality Assurance, §4 b (2)(b)) Regulators and the public also expect decisions and data that are technically and legally defensible. Verification and validation of the data ensure that data used in decisions resulting from the FSS are usable and defensible.

Verification and validation (V&V) of this Closeout Radiological Survey Report (CRSR) are the primary components of the DQA. Statistical (hypothesis) tests were not performed on the data sets for decision-making purposes, as measurement results from all Survey Units were compared on a one-to-one basis with free-release criteria as described in DOE Order 5400.5 Use of Order 5400 is more conservative than MARRSIM or EPA QA/G-9 techniques, as it allows averaging of measurement results to only 1 m² or less

The DQA presented in this Attachment supports conclusions in the report through implementation of the QA/QC guidelines taken from the following MARSSIM sections

- §4 9, Quality Control
- §8 2, Data Quality Assessment
- §9 0, Quality Assurance & Quality Control
- Appendix E, Assessment Phase of the Data Life Cycle
- Appendix N, Data Validation using Data Descriptors

The MARSSIM-recommended criteria for V&V of final status survey data, listed above, are concisely summarized in Table Q-1. The MARRSIM criteria are listed across the top of the table whereas the project's proof of implementation is listed along the left-hand side of the page. Note that 1 or more "checks" per column exhibit compliance with the MARSSIM criteria, which are listed per column.

2.0 VERIFICATION OF RESULTS

Verification ensures that data produced and used by the project are documented and traceable per quality requirements. Verification consisted of reviewing the project's data relative to three subsets. 1) radiological scans with the SCM/SIMS, 2) static surveys for removable and total contamination, and 3) radiochemical data resulting from paint samples analyzed via alpha spectrometry. Consistent with previous reports, verification confirmed that

- Chain-of-Custody was intact from initial sampling though transport and final analysis,
- preservation and hold-times were within tolerance
- format and content of the data are clearly presented relative to goals of the project, i.e., to determine, with at least 95% confidence, that the survey units of interest (A Annex) are adequate for radiological free release

Verification of the A Annex FSS data also addressed quality records representing implementation of the following quality controls

- calibrations (radiochemistry & surveys), for accuracy
- laboratory control samples (LCS -- radiochemistry), for accuracy
- blanks (radiochemistry), for accuracy
- duplicate measurements (radiochemistry & surveys), for precision
- chemical yield (radiochemistry), for accuracy
- count times (radiochemistry & surveys), for sensitivity
- sample preparations (radiochemistry), for accuracy, representativeness

SCM data were systematically managed and verified as follows

- A Survey Summary Sheet was generated for each survey unit, which lists all Final Survey subunits, including the associated investigation surveys
- The Survey Summary Sheet was compared to the electronic (computer) directory structure, the Project File (handwritten survey data) and SiMS-generated survey data for a "3-way" verification
- The Survey Summary Sheet, ordered by survey unit, is maintained at the front of the electronic database file structure as well as in the file cabinet

Areas requiring 100% survey coverage were verified as follows

- An overview map was developed for each survey unit
- The overview map served as an index of the subunits, and defined the subunit boundaries
- Every survey map used to document Electra as well as SCM scan surveys was reviewed against the overview map for coverage
- Because every survey map was correlated to a survey form, and all survey forms were
 inventoried via the survey summary sheet, 100% coverage of every subunit was assured

Areas requiring 10% to 50% survey coverage were verified as follows

- The area covered by the survey was summed for each subunit
- The subunit size was electronically calculated in Turbocad using scaled maps
- The sum of all subunits in the survey unit was summed
- The area surveyed was divided by the sum of the subunit size to determine the percent surveyed

Upon completion of the data management activities listed above, an independent peer review was performed on each survey package

All relevant Quality records associated with the A Annex D&D final status survey decisions will be submitted to the RMRS Records Center for permanent storage within 30 days of the conclusion of the 779 project

3.0 VALIDATION OF RESULTS

Validation consists of a technical review of all data that directly support the FSS decisions, so that any limitations of the data relative to project goals are delineated, and the associated data are qualified (caveated) accordingly. Data were validated relative to

- 1) the DQOs of the project as defined in the CRSP for the 779 Cluster (i.e., did the final data achieve the initial DQOs of the project?), and
- 2) quality criteria discussed throughout various sections in the MARSSIM (sections noted previously)

MARSSIM criteria for the broad topic of "data quality assessment" used in final status surveys generally falls within the generic categories of quality assurance, quality control, data validation, and data assessment (including verification and validation). Table Q-1 provides a "crosswalk" that lists the primary MARSSIM sections and generic data quality criteria (at top) and their corresponding implementation via the CRSP, CRSR, and project files

All of the significant MARSSIM criteria listed in Table Q-1 are summarily discussed within the "PARCC Parameters" section PARCC parameters are congruent with "data descriptors" in the MARSSIM parlance and address characteristics of the data that must be defined for scientific integrity and defensibility. Recall that at least one "X" in each column of the table constitutes achievement of the MARSSIM quality objective (vs. one "X" in each row). The next section, which addresses the PARCC parameters — Precision, Accuracy, Representativeness, Comparability, and Completeness also includes discussion on bias and sensitivity, two more data descriptors emphasized in MARSSIM.

Validation of data to K-H contractual requirements (K-H Statements of Work is currently performed on a site-wide basis at ~25% frequency by the K-H Analytical Services Division Satisfactory validation at this frequency indicates that subcontracted labs are operating competently relative to industry-wide standards, and more specifically, that sample custody and analytical procedures are implemented under defined quality controls on a sitewide programmatic basis. Sitewide data validation coupled with annual lab audits provides the inference that all analytical and radiochemical results not *specifically* validated, are represented by the percentage that is validated. Radiochemistry performed for this FSS were verified as meeting K-H contractual requirements via Module RC01-B 3 for alpha spectrometry.

PARCC PARAMETERS

PRECISION

Fundamental reproducibility of measurements, at levels near MDA and between different types/brands of instruments, are discussed at length in the "B779 Final Status Survey Meeting Resolution of CDPHE/EPA/IVC Comments, 6/30/99", which is included as Appendix 5 to the Closeout Radiological Survey Report for Building 729

1) Radiological Surveys

Precision of the radiological instrumentation was satisfactory based on tolerance charting of daily source measurements for each individual sensor used on the project, which includes all measurement types (scans and static measures for total contamination, swipes for removable) Adequate precision was established through instrument performance within a ±20% range as defined by measurement results compared to a standard source value. Based on standard protocol (*Radiological Safety Practices*) any measurement exceeding the defined tolerance limits required corrective action (repair or replacement) prior to the instrument's use in final survey.

For the SCM, three (3) measurements were taken for each QC check "episode", i.e., before and after each set of measurements per work shift (Millennium QAP, 3/99). Of the 3 measurements, 2 measurements had to pass specifications. Performance checks performed on the SCM are shown in the respective control charts (Attachment P). Two measurements not within the \pm 20% tolerance envelope required corrective action prior to the instrument's use or re-use

Duplicate total surface activity measurements were also periodically acquired (≥5% frequency of original final survey measurements) on the MARSSIM survey grids. All duplicate measurements were within tolerance based on the acceptance criterion that both results be below DCGL_W (note that, even if populations were "significantly" different between real and duplicate results, if both duplicate and real population statistics are less than action levels, the difference between duplicate and real values is, ultimately, insignificant relative to free-release decisions)

2) Radiochemistry

Results from laboratory duplicates indicate adequate reproducibility based on duplicate results within statistical tolerance values (>90% confidence of equivalency between the original sample and the duplicate). Although blind duplicate samples were not acquired for determination of overall project precision, agreement between the multiple samples to within a range less than the DCGL_W indicate that reproducibility is adequate for project decisions (i.e., relative to free-release of materials)

ACCURACY (and Bias)

1) Radiological Surveys

Accuracy of all radiological surveys is satisfactory based on implementation of protocols covering calibrations (at least annual) and periodic checks (at least daily). All instrumentation except the SCM/SIMS is controlled through (RFETS) site-specific procedures (e.g., RSPs), whereas the SCM/SIMS is controlled through the subcontractor's (Millennium Services Inc.) QAP and associated SOPs. Calibration and calibration check results were within the RFETS and industry-standard requirement of 20% of the applicable reference standard values. Full-scale, multi-point calibrations provided accuracies of \pm 10% prior to use of hand-held survey instruments in the project, consistent with guidelines put forth in ANSI-N323. All protocols that control instrumentation accuracy are included in the reference section, and may be referenced through the site document control system (site documents) or in the 779 Project File (Millennium QAP)

Key work-controlling procedures that contribute to accuracy (and representativeness) of the radiological surveys consist of the following

- Kaiser-Hill, LLC, 1999 Radiological Safety Practices RFETS, Golden, CO
- Millennium Services, Inc. 1999 Quality Assurance Plan for Radiological Surveys at RFETS, 779
 Cluster
- Ibid, 1999 SCM Procedure 008, Conduct of Operations for Surveys using the SCM/SIMS
- Ibid, 1999 SCM Procedure 005, Requirements for the Completion of Surveys using the SCM

- Ibid, 1999 SCM Procedure 006, Performing a Position Calibration
- Ibid, 1999 SCM Procedure 007, Response Check of any Detector Configuration Installed on the SCM
- Ibid SCM Procedure 001, Calibration and Field Confirmatory Tests of the Incremental Encoder included on the SCM

Distance measurements recorded by the SCM/SIMS are within 3% of actual distances for mapping and location purposes, as documented in the "incremental Encoder Calibration Verification Data Sheet"

Some bias may be indicated within control charts of the SCM (Attachment P), with runs of data below or above the reference standard value. However, given the overall low values of the data sets relative to the free-release criteria and the low probability of false negatives, the potential biases do not impact the ultimate project decisions of compliance with free-release criteria for the 14 survey units of interest for A Annex. Potential low biases in recount results — where recounts were performed with a hand-held instrument (Electra) following elevated counts (above action- or investigative-levels) by the SCM — have been concluded as insignificant, primarily based on the higher sensitivities of the hand-held instrumentation, where lower values would be expected if contamination was, in fact, absent. Comparability of these instruments, their results, and the role of measurement uncertainties in evaluating bias were have been addressed in related documentation (Appendix 5 of the Building 729 Closeout Report)

2) Radiochemistry

Accuracies of radiochemical results were within tolerance and acceptable based on the associated results of LCS and calibrations at the lab. Preparation blanks also confirmed that no significant cross-contamination occurred in the analysis process. Uncertainties of the radiochemical results are quantified for each sample by 2-sigma (counting) error. Uncertainties associated with the alpha-spec analyses were within standard industry magnitudes and did not adversely impact project decisions.

REPRESENTATIVENESS

Samples and surveys are representative based on the following criteria

- familiarity with facilities -- multiple walk-downs and collaborations by management and technical staff,
- implementation of industry-standard Chain-of-Custody protocols,
- compliance with sample preservation and hold times,
- use of documented and (site) approved methods
 - radiochemistry alpha spectrometry via K-H Module RC01-B 3 (4/24/98)
 - radiological surveys K-H RSP 7 02
- compliance with the CRSP (RMRS, March 1999) reviewed & approved by technical and management consensus prior to implementation

COMPLETENESS

Data packages for all 14 Survey Units are complete with respect to Survey Package contents The table, provided below, summarizes the minimum required number of samples or surveys and the actual quantity of samples or surveys

Consistent with EPA's G-4 DQO process, the sampling design was optimized through back-calculating actual measurement results (acquired during final status survey) and comparing model output with original estimates. Use of actual sample/survey (result) variances in MARSSIM's DQO model provided confirmation that an adequate number of samples/surveys had been acquired. Inputs required for decision-making, as stated in the original (planning) DQOs, were acquired, including coverage of originally-planned 3-dimensional boundaries of the structure. All radiological results are valid without qualification, and form data sets with adequate quantities and quality of data for free-release decisions on the 14 survey units of interest.

Rad Measurement Type	Required # of Samples/ Surveys (1)	Actual # of Samples/ Surveys	Comments
Survey Unit 77907			
Shonka SCM/SIMS (total)	10-50% areal coverage ³	> 50% areal coverage	DQO achieved
NE Electra (total) ²	17	19	DQO achieved
Eberline SAC-4 (removable) ²	17	19	DQO achieved
Radiochemical	17	17	DQO achieved
Survey Unit 77908			
Shonka SCM/SIMS (total)	10-50% areal coverage ³	> 50% areal coverage	DQO achieved
NE Electra (total) ²	15	20	DQO achieved
Eberline SAC-4 (removable) ²	15	20	DQO achieved
Radiochemical	13	14	DQO achieved
Survey Unit 77910			
Shonka SCM/SIMS (total)	10-50% areal coverage ³	> 50% areal coverage	DQO achieved
NE Electra (total) ²	15	21	DQO achieved
Eberline SAC-4 (removable) ²	15	21	DQO achieved
Radiochemical	15	16	DQO achieved
Survey Unit 77919			
Shonka SCM/SIMS (total)	>10% areal coverage	>>10% areal coverage	DQO achieved
NE Electra (total) ²	15	15	DQO achieved
Eberline SAC-4 (removable) ²	15	15	DQO achieved
Radiochemical	NA	NA	NA

Rad Measurement Type	Required # of Samples/ Surveys (1)	Actual # of Samples/ Surveys	Comments
Survey Unit 77921			
Shonka SCM/SIMS (total)	100% areal coverage	100% areal coverage	DQO achieved
NE Electra (total) 2	17	29	DQO achieved
Eberline SAC-4	17	29	DQO achieved
(removable) ²			
Radiochemical	17	17	DQO achieved
Survey Unit 77922			
Shonka SCM/SIMS (total)	100% areal coverage	100% areal coverage	DQO achieved
NE Electra (total) 2	24	24	DQO achieved
Eberline SAC-4	24	24	DQO achieved
(removable) ²		1	
Radiochemical	24	24	DQO achieved
Survey Unit 77923			
Shonka SCM/SIMS (total)	100% areal coverage	100% areal coverage	DQO achieved
NE Electra (total) ²	15	16	DQO achieved
Eberline SAC-4	15	16	DQO achieved
(removable) ²			
Radiochemical	NA	NA	NA
Survey Unit 77924			
Shonka SCM/SIMS (total)	100% areal coverage	100% areal coverage	DQO achieved
NE Electra (total) ²	15	15	DQO achieved
Eberline SAC-4	15	15	DQO achieved
(removable) ²			
Radiochemical	NA NA	NA NA	NA NA
Survey Unit 77925			
Shonka SCM/SIMS (total)	100% areal coverage	100% areal coverage	DQO achieved
NE Electra (total) ²	15	30	DQO achieved
Eberline SAC-4	15	30	DQO achieved
(removable) ²			
Radiochemical	NA NA	NA NA	NA NA
Survey Unit 77926			
Shonka SCM/SIMS (total)	100% areal coverage	100% areal coverage	DQO achieved
NE Electra (total) 2	15	28	DQO achieved
Eberline SAC-4	15	28	DQO achieved
(removable) 2			
Radiochemical	NA NA	NA L	NA NA
Survey Unit 77927	······································		
Shonka SCM/SIMS (total)	100% areal coverage	100% areal coverage	DQO achieved
NE Electra (total) 2	15	23	DQO achieved
Eberline SAC-4 (removable) ²	15	23	DQO achieved
Radiochemical	15	15	DQO achieved

Survey Unit 77928			
Shonka SCM/SIMS (total)	>10% areal coverage ³	>>10% areal coverage ³	DQO achieved
NE Electra (total) ²	15	24	DQO achieved
Eberline SAC-4 (removable) ²	15	24	DQO achieved
Radiochemical	15	15	DQO achieved
Survey Unit 77929			
Shonka SCM/SIMS (total)	>10% areal coverage ³	>>10% areal coverage ³	DQO achieved
NE Electra (total) 2	17	21	DQO achieved
Eberline SAC-4 (removable) ²	17	21	DQO achieved
Radiochemical	17	18	DQO achieved
Survey Unit 77949			
Shonka SCM/SIMS (total)	100% areal coverage	100% areal coverage	DQO achieved
NE Electra (total) 2	15	20	DQO achieved
Eberline SAC-4 (removable) ²	15	20	DQO achieved
Radiochemical	NA NA	NA NA	NA

⁽¹⁾ see "Summary Statistics Calculation Verification Worksheets" - refer to respective survey packages in 779 project files

COMPARABILITY

All results presented are comparable with radiological survey and radiochemistry data on a siteand DOE-complex wide basis This comparability is based on

- use of standardized engineering units in the reporting of measurement results
- consistent sensitivities of measurements at ≤ 50% DCGL_W (≤ 50% DCGL_{EMC} for scans)
- use of site-approved procedures (RSPs)
- systematic quality controls
- thorough documentation of the planning, sampling/analysis process, and data reduction into formats designed for making decisions posed from the project's original data quality objectives

SENSITIVITY

Adequate sensitivities, in units of dpm/100 cm², were attained for all surveys and radiochemical methods based on MDAs at approximately 50% of the transuranic DCGL_W (~50% DCGL_{EMC} for scans)

⁽²⁾ also see data summaries for additional "Post-media" surveys, i.e., following paint scrapes

⁽³⁾ MARSSIM guidelines are 10% to 100% for Class 2 interior units, Radiological Engineering professional judgement (stated in the CRSP) yielded ~100% coverage for floors and walls to 2m height, 10% of remaining room surface areas. Class 2 exterior survey units require minimum 50% lower walls, 10% upper walls/roof

The nominal MDAs for each survey and radiochemical method are summarized as follows

- SCM/SIMS (Millennium/Shonka) scan surveys/total contamination <160 dpm/100 cm²
- Surveys (Eberline SAC-4) removable contamination 10 dpm/100 cm²
- Surveys (NE Electra) total contamination 50 dpm/100 cm²
- Radiochemistry (alpha spec) total contamination <10 dpm/100 cm²

4.0 QA ELEMENTS of DOE Order 414.1 and 10CFR830.120

Adequate implementation of the ten quality elements required by DOE Quality Assurance Order (414.1) was corroborated through the verification and validation process described above. The ten DOE quality elements, or criteria, are inherent within the MARSSIM guidance, as DOE was a co-authoring organization to the MARSSIM. Quality elements deserving emphasis include qualifications of project personnel and additional controls in the areas of engineering design and computer software.

All personnel performing quality-affecting activities within the FSS project were qualified to perform their specific tasks. Suitable **training and qualification** documentation for personnel performing the work, from the laborers to technical professionals to management, is documented in several ways. T&Q status for personnel is included in the *Building 779 Cluster Closure Project Health & Safety Plan* (Rev. 6, 18 August 1998) and personnel dossiers controlled by company-specific Human Resource departments

Software quality control for the SCM/SIMS is chronologically documented and archived within the QA/QC folder (for Millennium Services) of the Project File—Software used to reduce data from radiochemical sampling and hand-held instrumentation was modified to record verifications and any alterations to calculations following V&V of the calculations—Details of the verification process were also improved through use of a checklist, which was completed for each Survey Unit Data Summary

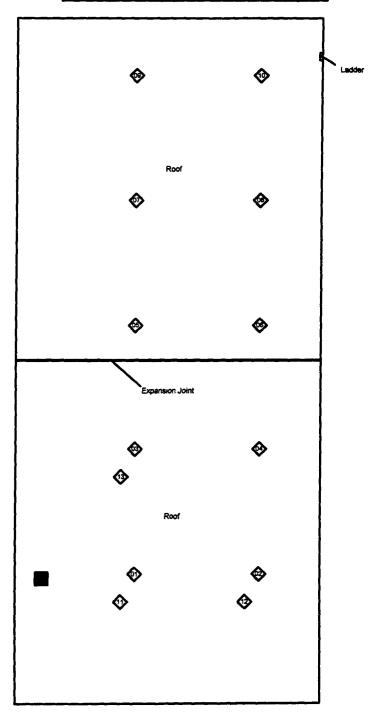
In summary, the data presented in this report have been verified and are qualified as valid and complete for comparison with free-release criteria (action levels) as stated in the original DQOs. All media sampled and surveyed, relative to both total and removable alpha activities, yielded results less than action levels for the associated contaminants of concern Therefore, the Survey Units in question meet the free-release criteria with the confidences stated in this section and throughout the report

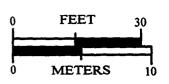
ATTACHMENT R Sample/Survey Measurement Location Maps

Survey Area H Survey Unit: 77907 Classification 2
Building 779
Survey Unit Description B779 Exterior Walls & Roof (Annex A West/North Walls & Roof)

Total Floor Area 1086 sq m Total Area 1544 sq m Grid Size 9m x 9m

SURVEY UNIT 77907-MAP 1 OF 2









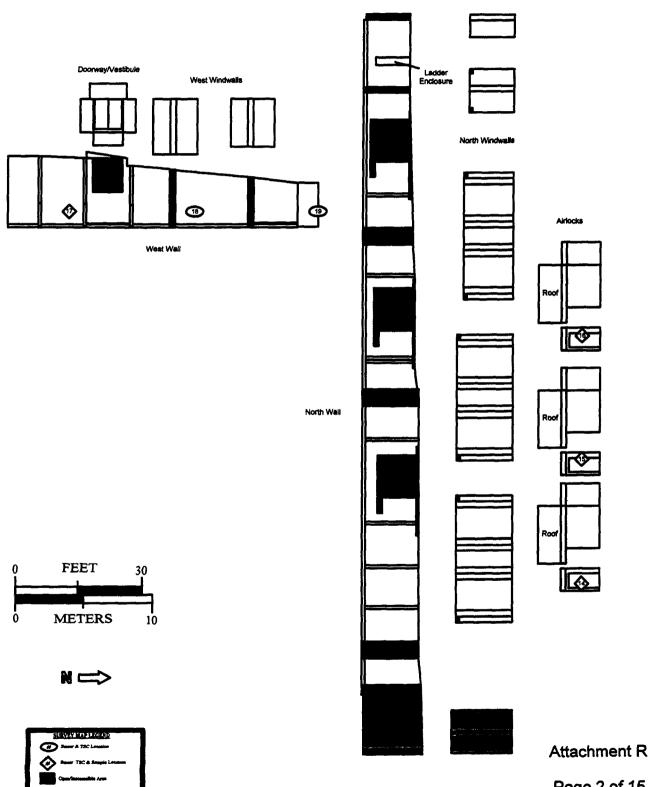
Attachment R Page 1 of 15

Survey Area H Survey Unit. 77907 Classification 2
Building 779
Survey Unit Description B779 Exterior Walls & Roof (Annex A West/North Walls & Roof)

Total Floor Area 1086 sq m Total Area 1544 sq m

Grid Size 9m x 9m

SURVEY UNIT 77907-MAP 2 OF 2



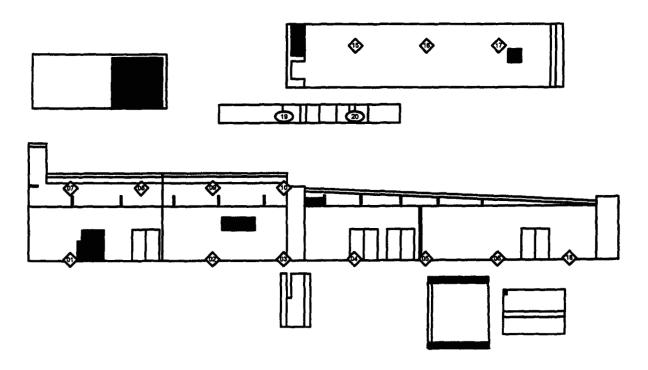
Page 2 of 15

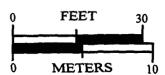
Survey Area H Survey Unit. 77908 Classification 2
Building 779
Survey Unit Description B779 Exterior Walls & Roof (Dock Walls & Roof)

Total Floor Area 180 sq m Total Area 439 sq m

Grid Size 5m x 5m

SURVEY UNIT 77908-MAP 1 OF 1









Attachment R

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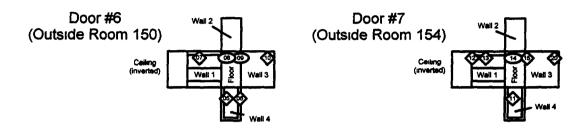
Survey Area H

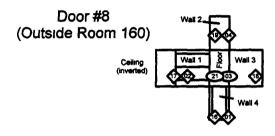
Survey Unit 77910

Classification 2

Building 779
Survey Unit Description B779 North Wall Airlocks (Doors 6, 7 & 8)
Total Floor Area 12 sq m Total Area 83 5 sq m Grid Size 3 0 m x 3 0 m

SURVEY UNIT 77910 - MAP 1 OF 1







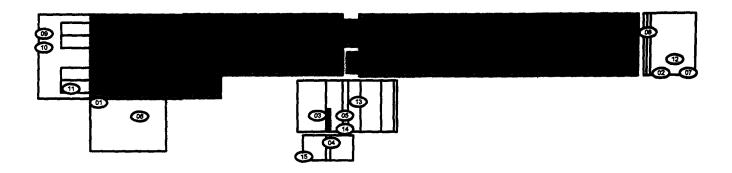
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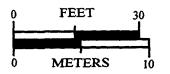
Page 4 of 15

Classification 3

Survey Area I Survey Unit: 77919 Cla
Building 779
Survey Unit Description Total Area 94 5 sq m

SURVEY UNIT 77919 - MAP 1 OF 1





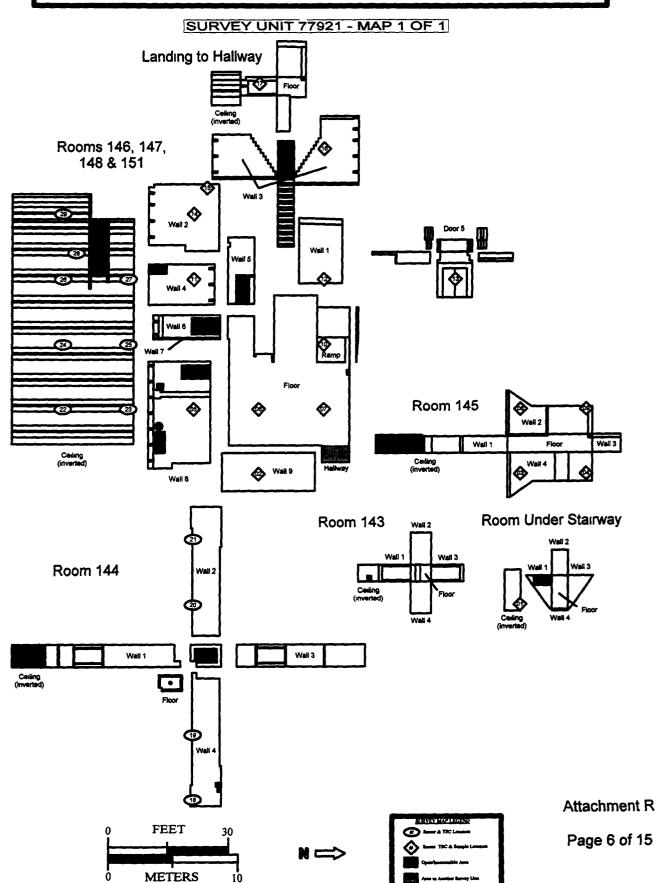




Attachment R

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RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER Survey Area E Survey Unit. 77921 Classification 1 Building 779 Survey Unit Description B779 First Floor "A" Annex (Rooms 143, 144, 145, 146, 147, 148 & 151) Total Floor Area 113 sq m Total Area 634 sq m Grid Size 5.0 m x 5 0 m



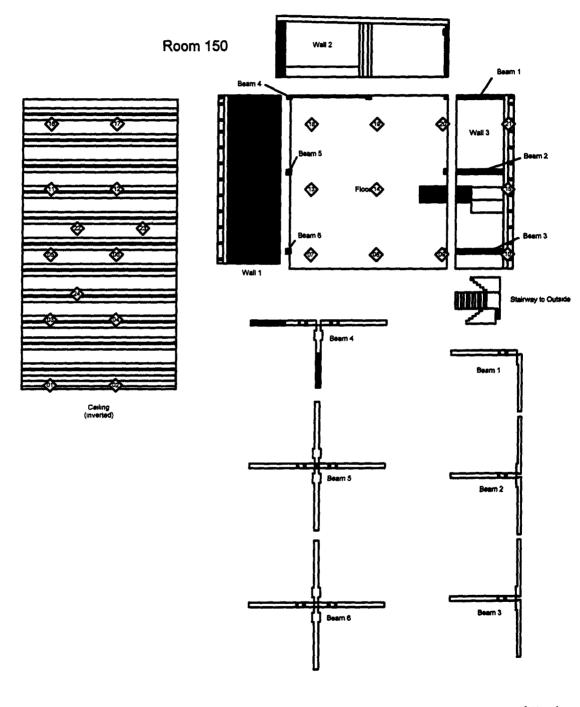
Survey Area E

Survey Unit 77922

Classification 1

Building 779
Survey Unit Description B779 First Floor "A" Annex Room 150
Total Floor Area 160 sq m Total Area 413 sq m Grid Size 5 0 m x 5 0 m

SURVEY UNIT 77922 - MAP 1 OF 1









Attachment R

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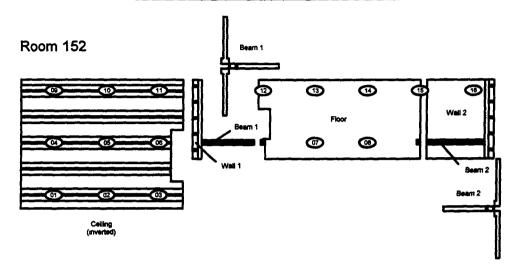
Survey Area E

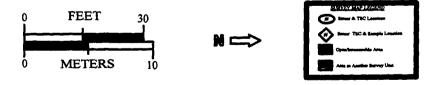
Survey Unit 77923

Classification 1

Building 779
Survey Unit Description B779 First Floor "A" Annex Room 152
Total Floor Area 72 sq m Total Area 229 sq m Grid Size 4 0 m x 4 0 m

SURVEY UNIT 77923 - MAP 1 OF 1





Attachment R

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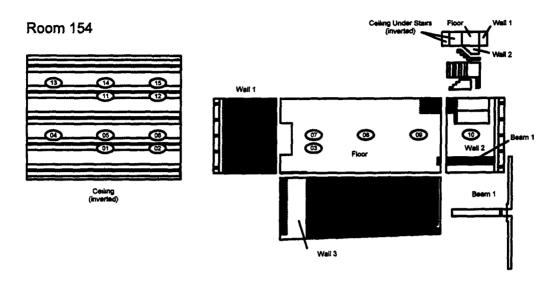
Survey Area E

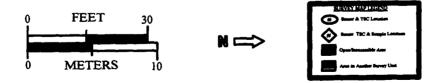
Survey Unit 77924

Classification 1

Building 779
Survey Unit Description B779 First Floor "A" Annex Room 154
Total Floor Area 67 sq m Total Area 223 sq m Grid Size 4.0 m x 4 0 m

SURVEY UNIT 77924 - MAP 1 OF 1





Attachment R

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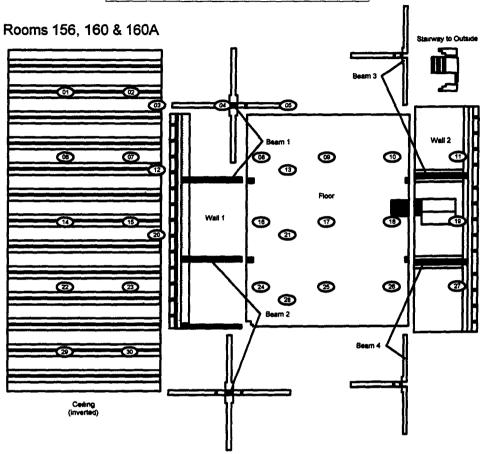
Survey Area E

Survey Unit 77925

Classification 1

Building 779
Survey Unit Description B779 First Floor "A" Annex Rooms 156,160 & 160A
Total Floor Area 199 sq m Total Area 630 sq m Grid Size 50 m x 50 m

SURVEY UNIT 77925 - MAP 1 OF 1





Attachment R

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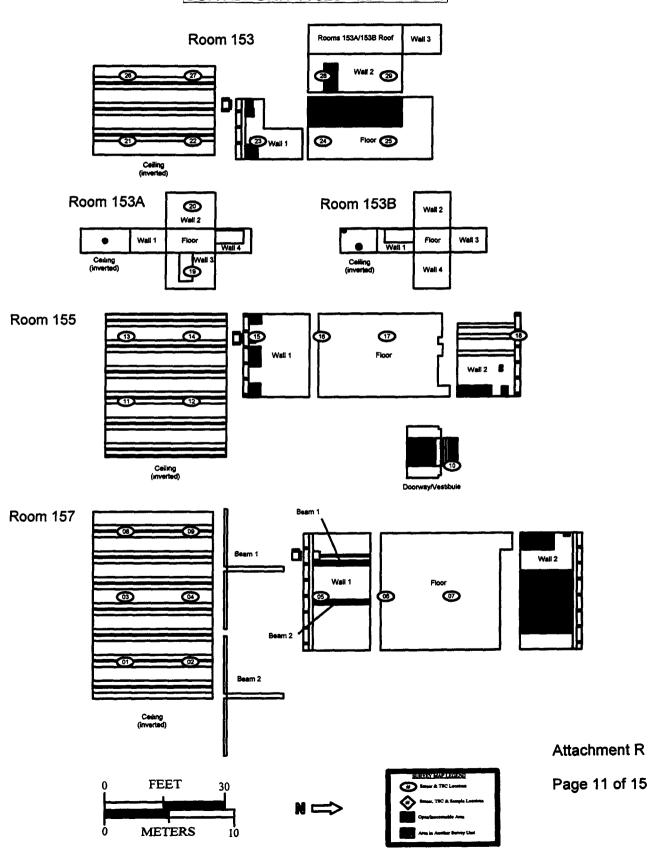
Survey Area E

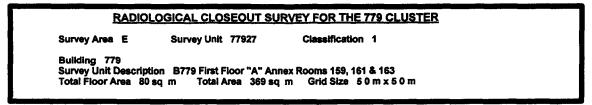
Survey Unit 77926

Classification 1

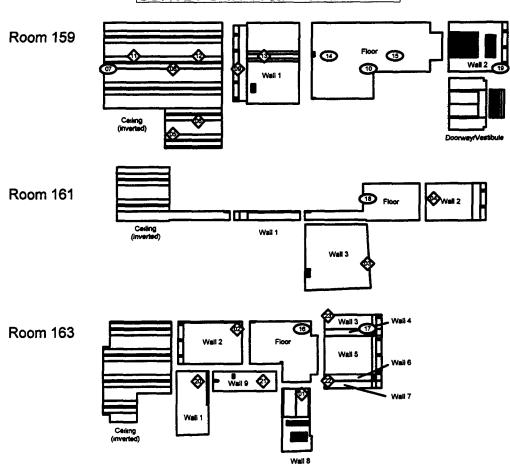
Building 779
Survey Unit Description B779 First Floor "A" Annex Rooms 153, 163A, 163B, 155 & 157
Total Floor Area 183 sq m Total Area 733 sq m Grid Size 5 0 m x 5 0 m

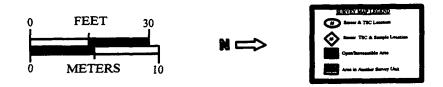
SURVEY UNIT 77926 - MAP 1 OF 1





SURVEY UNIT 77927 - MAP 1 OF 1





Attachment R

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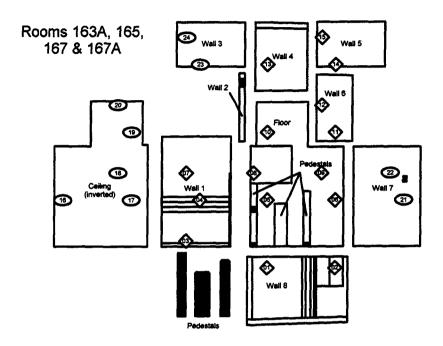
Survey Area E

Survey Unit. 77928

Classification 2

Building 779
Survey Unit Description B779 First Floor "A" Annex (Rooms 163A, 165, 167 & 167A)
Total Floor Area 64 sq m Total Area 305 sq m Grid Size 5 0 m x 5 0 m

SURVEY UNIT 77928 - MAP 1 OF 1





Attachment R

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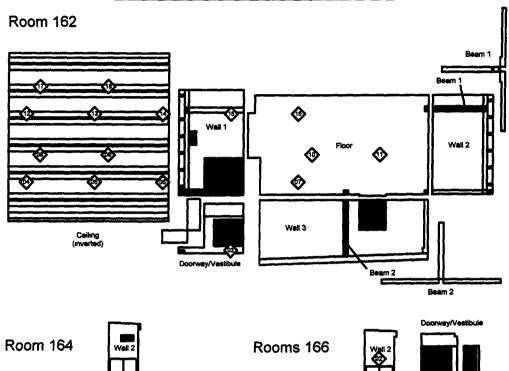
Survey Area E

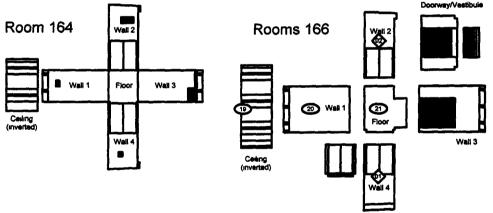
Survey Unit: 77929

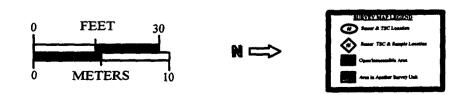
Classification 2

Building 779
Survey Unit Description B779 First Floor "A" Annex (Rooms 162, 164 & 166)
Total Floor Area 107 sq m Total Area 498 sq m Grid Size 5 0 m x 5 0 m

SURVEY UNIT 77929 - MAP 1 OF 1





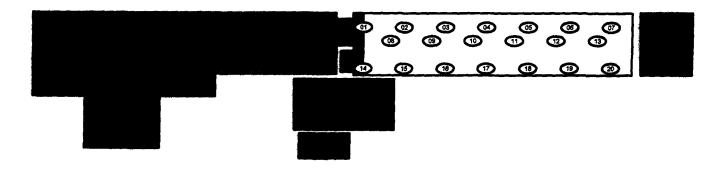


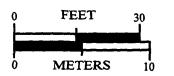
Attachment R

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Survey Area I Survey Unit. 77949 Classification 1
Building 779
Survey Unit Description B779 Dock & Ramp (North Floor Only)
Floor Area 88 sq m Total Area 88 sq m Grid Size 3 0 m x 3 0 m

SURVEY UNIT 77949 - MAP 1 OF 1









Attachment R

Page 15 of 15